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PUBLISHED WEEKLY AT 42 CANNON ST., LONDON, E.C.4.

SUBSCRIPTION WITH
DIARY 20/- PER ANNUM.
SINGLE COPIES 9d.

No. 2302.

MARCH 8, 1924.

Vol. C.

The First of the Season.

Cod-Liver Oil

..... from our Lofoten Factory

We have received from Norway the first consignment of 1924 Cod-Liver Oil. The results of the examination and analysis show the Oil to be of excellent quality.

Analytical Report.

Colour—Very pale Odour—Slight

Taste—Bland and not unpleasant

Non-coagulable at 0°C.

Specific Gravity—0.9265 at 15.5°C.

Refractive Index at 20°C—1.4792

B.P. Standards

Acid Value 0.39 2.5 (max).

Saponification Value 190 179 192

Iodine Value 168 155 173

Unsaponifiable Matter 0.663 not more than 1.5

The Acid Value and the Unsaponifiable Matter are unusually low. The colour reaction given by sulphuric acid is strongly marked: this has been shown to be correlated with a high content of Vitamin A.

Supplies are now available. Samples and quotations will be sent on request.

Allen & Hanburys Ltd

BETHNAL GREEN, LONDON, E.2.



**"To carry conviction,
you must be yourself
convinced."**

The finest advertising force is recommendation, one word of recommendation founded on experience carrying more weight than columns of self-praise.

Lest it might be thought that May, Roberts' trumpeter is dead, listen to what one of our customers, whose pharmacy is 123 miles from London, says:

"I should like to mention that I sent you an order on the 8th for 89 items. The goods were delivered here early on the 10th."

Nothing that we can say would add to the persuasive power of this pithy testimonial. What the retail Pharmacist pays for when he goes to the Wholesale Distributor is celerity of working, freedom from omissions, and lowest prices, and you get what you pay for if you go to May, Roberts.

This testimonial is but one of hundreds which we can show you at Clerkenwell Rd., but if you cannot call, send us a post card for the most complete Catalogue of Druggists' Sundries in existence, and with this before you, write out a test order and convince yourself.

Our supply of lists is running low, so write the post card now.

May, Roberts & Co., Ltd.

7/13 Clerkenwell Road, London, E.C.1.

And at - - Dublin, Liverpool and Plymouth.



Our friends and customers will be interested to learn that a miniature case of tiny, but perfect bottles containing ENO's "Fruit Salt" has been accepted for the Queen's Dolls House, which is to be one of the chief exhibits at the British Empire Exhibition.

Measuring only $\frac{1}{8}$ of an inch in height, these bottles are complete down to the minutest detail. Even the wording on the label can be easily read with the aid of a microscope.

Naturally it is a matter of pride to the Proprietors of ENO's "Fruit Salt" that their product should be one of those included in an exhibit of such national and historic interest as the Queen's Dolls House.

The first page of this unique preparation, ENO's "Fruit Salt," possesses the valuable properties of lemon-fruit and is entirely free from sugar or other sweetening matter. Apart from its medicinal value, which renders it a standard household restorative for digestive ailments and disorders of the liver, ENO is an unrivalled health drink and a cooling, refreshing thirst quencher.

ENO is absolutely safe, even for those of delicate constitution, and can be taken at all times, in all climates. The temperature of the water and degree of effervescence required for largely matters of individual taste. The amount of ENO necessary and the frequency of the draughts should be just sufficient to produce a gentle aperient action.

DIRECTIONS FOR USE

Adults—For an aperient, dissolve a teaspoonful in half a glass of water taken regularly at the same time each day. For a cooling and refreshing drink, use a larger quantity.

Children—For an aperient, use a smaller quantity, and for a cooling and refreshing drink, use a larger quantity. In very cold weather, the drink should be slightly warmed. ENO may be taken at any time, and is especially valuable in cases of indigestion, flatulence, or constipation.

Digestive Ailments—In cases of indigestion, flatulence, or constipation, regardless of the cause, the use of ENO's "Fruit Salt" is a most effective remedy. It is especially valuable in cases of indigestion, flatulence, or constipation, and is especially valuable in cases of indigestion, flatulence, or constipation.

Sleeplessness is frequently due to the sluggish action of the bowels, and the use of ENO's "Fruit Salt" is a most effective remedy. It is especially valuable in cases of indigestion, flatulence, or constipation, and is especially valuable in cases of indigestion, flatulence, or constipation.

ENO's "Fruit Salt" is a most effective remedy for all digestive ailments, and is especially valuable in cases of indigestion, flatulence, or constipation.

Why it pays to push an Original —



**THE RIGHT
PACKAGE**

An original product is always preferred by the people who matter—they trust a name which is a household word and instinctively resent the mention of an imitation or substitute.

* * *

There's nothing "just as good" as Horlick's—the original Malted Milk.

* * *

Customers value and appreciate sound advice—that expert knowledge which is the result of long experience.

* * *

In recommending Horlick's your advice is as good as the product.

* * *

Gratified as the result of your recommendations, satisfied customers are your best assets—they gain confidence in you and come back.

* * *

Horlick's always satisfies.

* * *

The sale of Horlick's—the Original—is and always has been directed through Chemists, whilst substitutes and imitations are often exploited through other trades.

* * *

Attractive advertising material for Window Display and Counter Distribution free and carriage paid on application to the Company.



Made in England by

Horlick's Malted Milk Co., Slough, Bucks.

Products of Quality

MALT EXTRACT

WITH

Cod Liver Oil

AND PLAIN

MALT EXTRACT

TESTIMONY.

One Pharmacist writes :

"We are duly in receipt of your sample Malt and Oil. There is only one thing to say about it. It is perfect. Please book contract B to be drawn upon when required."

TESTIMONY.

Another remarks as follows :

"I would like to add that your Malt Extract with Cod Liver Oil pleases my customers better than any I have had hitherto."

EXPERIENCE proves beyond doubt that the strictest attention to **QUALITY** establishes a high reputation and is the prime factor in determining the permanent success of any commodity.

As a Pharmacist your turnover in Malt Extract with Cod Liver Oil is a matter of considerable importance to your business, so that to you **QUALITY** has a very real meaning.

Being one of the largest manufacturers in the world of Malt Extract we can rightly claim to possess exceptional facilities for supplying your requirements in Malt Extract with Cod Liver Oil and/or plain Malt Extract. Only the finest English Barley Malt and the purest Norwegian Cod Liver Oil are used by us.

Manufacture takes place at our model factories, which are located in the beautiful country district of King's Langley, Herts. All our machinery is of the very latest type. Our staff of qualified chemists are completely versed in the technique of manufacture, and each output is analysed to ensure purity and activity of the ingredients and correct standardisation.

Our distinctive labels are artistic and dignified, and the complete range provides a charming variety suitable to all tastes. The service we render in showcards, background material, also selling leaflets bearing your own name and address, is we believe unequalled.

Do not place your business elsewhere until you have obtained our samples and prices, which compare favourably with any on the market.

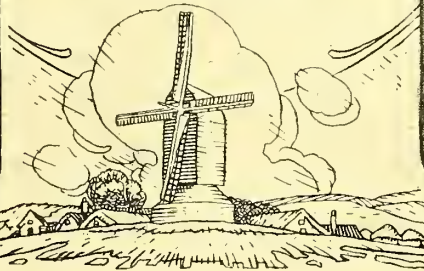
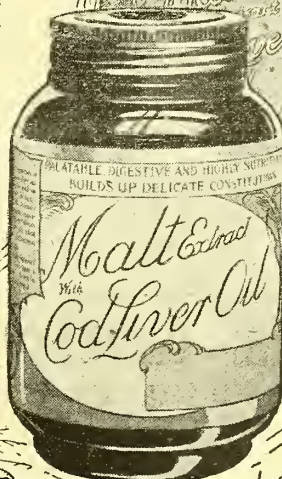
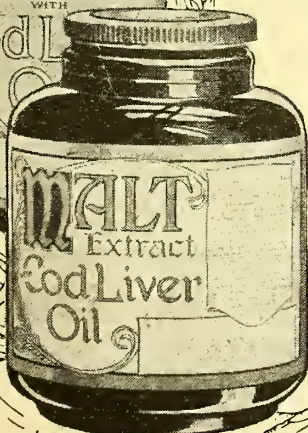
Your enquiries are earnestly solicited. We know we can satisfy the most exacting need.

A. WANDER Ltd.,

Manufacturing Chemists and Makers of "Ovaltine"
Tonic Food Beverage, etc.,

45, COWCROSS ST., LONDON, E.C.1.

Works: KING'S LANGLEY, Herts.



THE CHEMISTS' MUTUAL INSURANCE CO., LTD.

EMPLOYERS' LIABILITY

The liability of the Chemist for his staff under the Workmen's Compensation Acts has recently been increased.

Many Chemists overlook the need of insuring against this risk.

We have definite knowledge of the value of insuring against an employer's liability in respect of his staff.

Will you let us explain your position and quote you terms?

FIRE & OTHER BUSINESS INSURANCES

THE CHEMISTS' MUTUAL INSURANCE COMPANY was founded by the R.P.U. to give Chemists the full value of their insurance.

It is the Chemists' own company, and insures Chemists' risks only because these are the safest in the insurance market.

Economical Premiums with Security and Prompt Settlement Guaranteed

Extract from a letter received during February, 1924.

"I should like to express my appreciation of your promptness of settlement. A common argument which counts is that a local agent on the spot can do better for his clients, but I am sure I could not have wished for fairer treatment or prompter settlement."

LET US HAVE YOUR ENQUIRIES AND WE
ARE CONFIDENT YOU WILL BE SATISFIED.

THE CHEMISTS' MUTUAL INSURANCE CO., LTD.

19 Tavistock Square, LONDON, W.C.1

G. A. MALLINSON, Secretary.

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GROUND FROM { SELECTED Alexandria Senna, Grade A,
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LONDON, E.C.2

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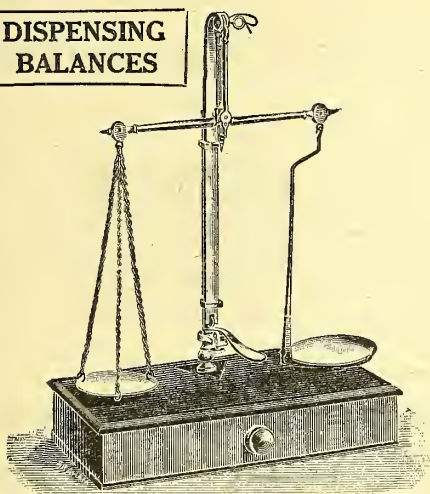
Our large and varied stocks enable us to forward selections on approbation so that exact matching can be made with accuracy and ease.

RAPHAEL'S LTD., LONDON. HATTON GARDEN, E.C.1.

Have you started the year right BEHIND the counter? ∴ ∴

GOOD Dispensing requires good tools. The scrapping of faulty items may save you many pounds. Cracked measures and false balances make accuracy impossible, and you never know when you may be dispensing a test prescription.

DISPENSING BALANCES



We can supply excellent balances sensitive to 1/10th or 1/20th gr. at prices it will be very difficult to beat. Tell us your wants.

DISPENSING KNIVES



Fig. 2. **PALETTE**—Balance handles, riveted, best Sheffield steel blades.

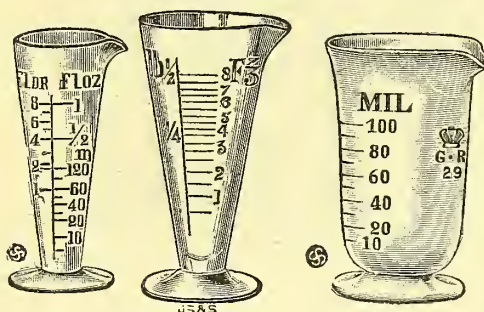
3 in. - per doz.	12/-	8 in. - per doz.	24/-
4 in. - "	13/6	9 in. - "	29/9
5 in. - "	15/6	10 in. - "	37/-
6 in. - "	16/6	11 in. - "	44/-
7 in. - "	21/-	12 in. - "	56/-



Fig. 4. **PILL**—Balance handles, riveted steel blades.

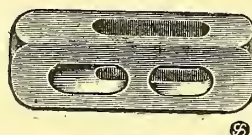
3 in. - - - -	per doz.	13/-
4 in. - - - -	"	15/-
5 in. - - - -	"	16/9

GLASS MEASURES



Minim or Metric, Stamped or Unstamped, Conical or Cylindrical, we can supply the right measure at the right price. Why not a complete new set? Let us quote you.

STOPPER EXTRACTORS



A handy little gadget, both temper and time saving. Made in hard wood with various size holes. Per doz., 11/-

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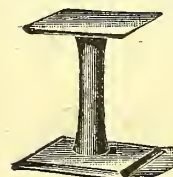


Fig. 1. Plain Brass. ... Per doz., 54/6

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LONDON, N.W.1.

Factory First Aid Cases

"SANOID" BRAND



This shows the 21/- case.

A 182 For Factories or Workshops with 50 employees or less. **21/-**

A 182 can also be supplied in superior strong enamelled metal case at 18/6

A 183 For Factories with more than 50 employees, where ambulance room is provided. **31/-**

A 184 For Factories with more than 50 but under 150 employees, where there is no ambulance room provided. **58/-**

that comply fully with the Regulations can be sold only by Pharmacists

REMEMBER

We are the pioneers in the manufacture of First Aid Outfits and our experience tells.

You make a profit of 20% on a single case

and if you order 16, not necessarily to be delivered in one lot

Your profit is 25%

Get in touch with owners of Factories and Workshops in your neighbourhood.

WE WILL SEND YOU A SPECIMEN 21/- CASE ON RECEIPT OF REMITTANCE FOR 16/6 CARRIAGE PAID

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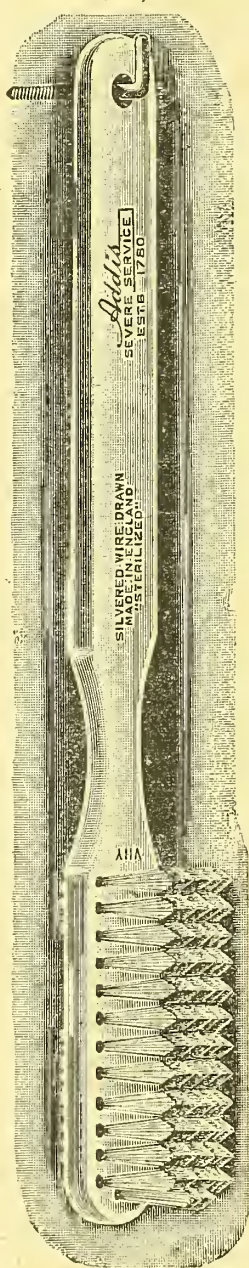
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The First Tooth Brush

ADDIS
SEVERE SERVICE
Estb. 1780.



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was made in 1780 by WILLIAM ADDIS in London, England. The business then founded has been carried on continuously, passing direct from father to son. The policy of the business has always been "Service" to user.

When purchasing a Tooth Brush, should you require a stiff brush for Severe Service, ask for

**"Addis
Severe Service"**

This is typically an English Style Gentleman's Brush, made of Unbleached Bristles, with small serrates on a plain straight handle.

For those who require a smaller and more stylish brush the

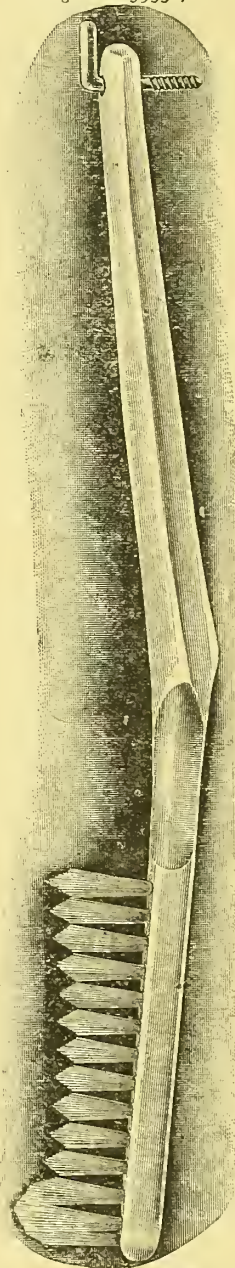
**"Addis
Prophylactic"**

on a curved handle, will fill the want. This brush is made in Very Hard Unbleached Bristles, Hard White, Medium White, and Soft if required. We recommend the Hard for the average use, bristles always being softer when wet.

Both these brushes are hand-fashioned and hand-drawn, the best materials and methods of workmanship being used regardless of cost.

Manufactured in England and Guaranteed by:
THE OLDEST FIRM OF TOOTH BRUSH
MANUFACTURERS IN THE WORLD

ADDIS
PROPHYLACTIC
Reg. No. 593367.



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ROBT. ADDIS & SON
BRUSH WORKS, HERTFORD, ENGLAND.

Maw's Page

A New Throat Brush The "Velfin"

Sterilized. In Dust-proof Bag.

The average customer would feel, when purchasing a throat brush, that there was good reason to be particular about it. The pharmacist would be expected to supply a throat brush which was thoroughly clean and safe for use.

The new "Velfin" Throat Brush has been introduced to enable the pharmacist to meet this modern demand for hygiene and cleanliness in matters of this kind. It is sterilized, and is sold in a cellophane dust-proof container.

The brushes are of the best quality and are mounted on straight or bent handles.

If your customer requires a throat brush, the "Velfin" has every advantage for making a quick and satisfactory sale.

Price
4/6
per dozen



Price
4/6
per dozen

Telephone:
City 7
Private
Branch
Exchange

Telegrams:
Eleven
Cent
London

S. Maw, Son & Sons, Ltd.,
Aldersgate St., London,
and Barnet.

Cables: **Eleven**
London
Code: **A.B.C.**
4th & 5th
Edition





Do you Study the Advertising

which is directly connected with your business ?

We would respectfully suggest that it is worth your while for you, and more particularly for your assistants, to study the HOOKER'S announcements in the National Press.

Because they give all the selling points about HOOKER'S and are conspicuously free from overstatement, these advertisements help you to sell the goods.

We are all in business to make a profit. Mutual help is the basis of successful trade. We are doing our very utmost to help *you* by advertising widely. All we ask you to do is to turn that advertising to your own advantage as a means of making extra profit.

HOOKER'S

Malted Milk

Write for price and trade terms

Thew, HOOKER & Gilbey Ltd., BUCKINGHAM

TRADE



MARK

(REGD.)

Write To-day for this **FREE** Book on Babies!

The 156-page Glaxo Baby Book is the standard book of reference upon all matters concerning the rearing of infants.

We would like to present you with a copy of the latest edition of this book, so that you may see for yourself what a valuable book it is to the mother of a baby.

The mother who reads the Glaxo Baby Book cannot fail to give Glaxo preference over every other infant food—and she knows why.

Through our large space advertisements in the national Press during this month we are offering 50,000 copies of this book **FREE** to mothers—50,000 "salesmen" to whose every word 50,000 mothers will listen with deep and heartfelt interest.

Get this book—and if you do not need it in your own family, present it to a favoured customer—or keep it handy for reference.

Abridged Index of the 156-pp. GLAXO BABY BOOK offered **FREE**

Adenoids. Air, Fresh, Night. Albumen Water. Alcohol. Amusing Baby. Anæmia. Ankle Drop. Aperients, Baby. " Mother. Baby's Travels. Barley Water. Baths, Baby. " Mother. Bed-sores. Beef Juice. Belts for Baby. " Mother. Binders for Baby. Bites of Insects. Blanket. " Bag. Bleeding. Blindness. Blisters. Bone, Boats. Boracic Lotion. " Powder. Bowels, Baby. " Mother's. " Pro lapse of. Bow Legs. Brain, Baby's. Bread, Brown. Breast, Baby's. " Feeding. Breathing. Bronchitis. Burns. Butter Balls. Calomel. Castor Oil. Celluloid. Cereal Food. Changing Foods. Character. Chewing. Chicken-pox. Chills, Chills. Choking, Chorea. Circumcision. Cleanliness. Cleft Palate. Clothing for— Baby. Mother. Older Children. Shortening. Travelling. Colds, Colic. Comforter. Constipation— Baby. Mother. Convulsions. Cots. Cough. " Whooping. Cow's Milk. Croup. Crusts. Crying. Curd. Cuts. Dance, St. Vitus's. Deafness. Deformities. Delicate Baby. Development. Diapers. Diarrhea. Dietary at— nine months. 18 months. Dill Water. Diphtheria. Discharges. Discipline. Disease, Heart. " Hip. Doctor. Draughts. Dressing. Dribbling. Drugs. Drug Rash. Dummy. Dysentery. Earache. Ears. Ear Syringing. Eczema. Emetic, Enema. Eucalyptus Oil. Exercise for Baby. Expectant. " Mother. Eyes. Fat. Feeding— Artificial. Bottles. Breast. Excessive, Increase. Mixed. Night. Outfit. Refusal of. Tables. Times. Unsuitable. By Weight. Feeds, How to Prepare. Feverish Attacks. Fevers. Fireguard. Flannel. " Apron. " Head. " Long. Flannelette. Flatulence. Flies. Fontanelles. Food, Baby's. " Warmer. " Measure. Foot, Club. " Turning. Foreign Body— In Ear, Eye. Nose, Stomach. Throat. Friar's Balsam. Furniture for Nursery. German Measles. Glands. Glaxo, What is? Glaxo—Directions for Making. Export. Glaxo—Feeder. Malted Food. Measure. Nurses. Process. Glycerine. Gripes. Growing Pains. Habits. Hair. Harelip. Head. " Ache. " Closing of. Health Rules. Hearing. Height, Hiccough. Honey. Hood, Pram. " Woollen. Hot Water Bottle. Inconsistency. Increase Feeding. Incubation Period. Indigestion. Infantile Paralysis. Infection. Inflammation of the Eyes. Injections. Insects. Irritation. Jaundice. Jaws. Jelly, Oatmeal. Juice, Fruit. " Meat. Kidneys, Kissing. Layette. Legs, Bow. Lice. Lime Water. Lolling. Lotions. Long Flannel. Lungs, Baby's. Mackintosh. " Apron. Bib. Magnesia. Malt Extract. Malted Food. Mark, Birth. Mastication. Mattress. Measles. Measurement of Baby. Medicinal Paraffin. Medicines. Milk, Cow's. " Mother's. Mothers' Help. Bureau. Mouth Breathing. Muscular Development. Nails. Napkins. Navel. Nerves. Net for Cot. Nettle-rash. Night Air. " Dress. Nipples, Baby's. " Mother's. Nausea. Nits. Noises. Nose, Bleeding. Foreign Body in. Washing. Nursery—Gate. Oatmeal. Obedience. Obstetric Table. Ointments. Open Windows. Ophthalmia. Orphans. Pains, Growing. Palate, Cleft. Paper Patterns. Paps. Pediculi, Peeling. Perambulator. Perspiration. Pillow. Pipette. Playground. Poisoning. Porridge. Powders— Dusting. Grey. Pregnancy. Premature Babies. Progress. Punishment. Push Cart. Quinsy. Rash. Recipes. Red Gum. Refusing Food. Regularity. Report for Doctor. Rheumatism. Rickets. Ringworm. Robes. Rocking. Rubbing. Rupture. Rusks. Saliva. Scalds. Scarletina. Scarlet Fever. Screen. Scurf. Septic Poisoning. Shock. Shoes. Sickness, Baby. " Mother. Skin Troubles. Sleep. " Crying in. " Hours of. " Restless. Sleeping Bag. " Out. " Suit. Small-pox. Snoring. Soaps. " Injection. " Stick. Soda. " Bi-carbonate. Sore Buttocks. Spine. Spoiling. Sponge. Spots. Squint. Stammering. Stomach-ache. Stomach, Baby's. Sty. Sucking. Sugar. Milk. Sulking. Sunshine. Sunstroke. Sweat Rash. " Taking Notice. Teaching Baby— To Talk. To Walk. Teeth Cleaning. Teething. " Powders. Temperature— Of Bath. Of Food. Of Injections. Of Nursery. Taking of. Test Feeds. Thermometer.

Read what these Doctors say about the Glaxo Baby Book

" May I be permitted to congratulate you on your publications which I received from you—' The Glaxo Baby Book ' and ' Before Baby Comes ' ? The latter is one of the most sensible books I have ever read, and I seem to have learned more practical hints from the former than from several years of medical practice.

" I have recommended them to many of my patients and always with gratifying results. " We both feel greatly indebted to you for these books and the valuable help which they have given us."

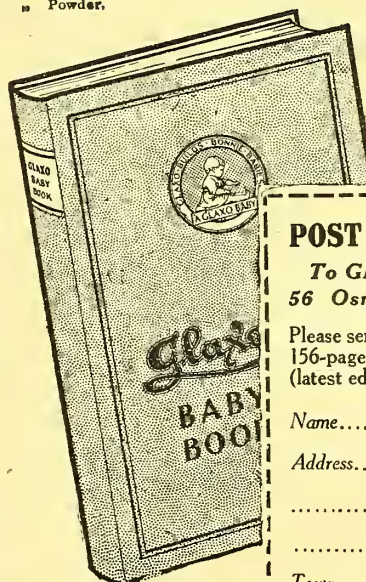
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" I have lent out my Glaxo Baby Book, and have not had it returned, so I will be glad if you will send me another.

" I find it most useful to mothers.

" Your enterprise in producing such an encyclopædia of valuable information cannot but have a favourable effect upon the health of the next generation."

Ref. No.—D.A. 30.



Seize this opportunity

POST THIS COUPON

To GLAXO (DEPT. 23),
56 Osna burgh St., N.W.1.

Please send me a **FREE** copy of the 156-page GLAXO BABY BOOK (latest edition).

Name.....

Address.....

Town.....

County.....

Actual size of Book 7½" x 5"

This delightful cream meets the needs of all ladies

The Phyllis Earle Foundation Cream is a delightful greaseless cream for use before powdering and one which will preserve the softness and smoothness of the skin and delicacy of the complexion.

There is a demand for this cream amongst those who know how really beneficial a good cream can be for it is essentially a high-class product. Profits are just right for the pharmacist who will find that to stock it is well worth while on account of the repeat orders he will get through recommending such a charming cosmetic.

PHYLLIS EARLE FOUNDATION CREAM

Write for trade terms and full particulars.

PHYLLIS EARLE Ltd.
15 North Audley Street, W.1.

(Proprietors of "Kemolite.")

PUFFS of ALL KINDS in DOWN and WOOL.

SOLID FACE POWDERS

COMPLETE WITH PUFFS.

Inquiries invited by makers,

F. SCHUTZE & CO., Ltd.

BLACK BULL WORKS,

Caledonian Market, London, N. 7.



The Perfect Feeder

British-made throughout.

The Practitioner says: "We have carefully examined the Glaxo Feeder, and have no hesitation in saying that it is the best that has come to our notice. It is remarkably simple; easily cleaned; does not crack when put from hot into cold liquids; its dosage can be accurately measured from both ends; the valve and teat cannot be pulled off by Baby while feeding. Its shape is an immense improvement on the usual style."

Glaxo Feeder

Retail Price.

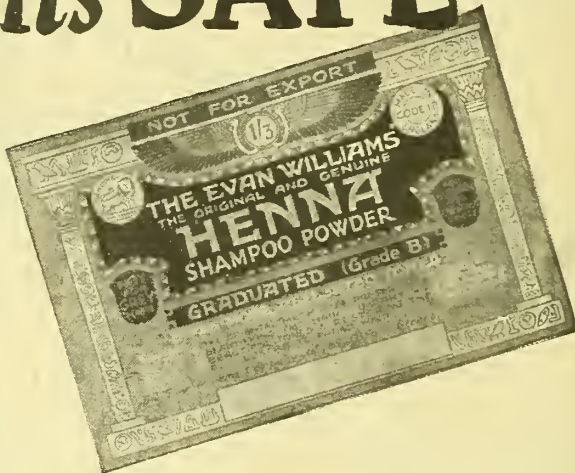
Complete Feeder 1/6 each.
Spare Bottle . . 1/- each.
Teat 4d. each.
Valve 3d. each.

Price to Retailer.

13/6 per doz.
9/- per doz.
3/- per doz.
2/3 per doz.

GLAXO (Sole Department), 56 Osaburgh Street, N.W.1.

It's SAFE



Another
EVAN WILLIAMS SHAMPOO
that builds Business

EVAN Williams "Graduated" Henna Shampoo should be recommended where more reflected tones are required. It gives a greater brilliancy than the "Ordinary," which is, however, quite suitable in the case of hair in perfect condition.

These two shampoos — the Evan Williams "Ordinary" and the Evan Williams "Graduated" — if shown on your counter will sell themselves and bring customers back for regular supplies.

You cannot afford not to stock

EVAN WILLIAMS **Original Henna Shampoo**

Write to-day for full particulars of trade terms.

The EVAN WILLIAMS CO., LTD.
14 Union Street, London, W.1



and the

SULPHUR TABLETS

(ORANGE, PLAIN

OR LIME FLAVOUR)

are as good as the display

❶ WE SELL IT TO YOU in bulk with gratis cartons or tastefully packed in tins.

❷ WE SELL IT FOR YOU by "top of the bill" display matter which gets the first customer.

❸ WE MAKE IT A HIGH GRADE TABLET which brings the buyer a second, third, fourth and fifth time for "Sulphurs," but of course he also buys—well, it's up to you and your staff.

	7 lb.	14 lb.	28 lb.	56 lb.	1 cwt.
Bulk -	1/5.....	1/4.....	1/3.....	1/2.....	1/1

Free cartons on the basis of 400 to 112 lbs.

Tins - 1½ oz. 3/- per doz. ; 33/- per gross. 2 oz. 4/- per doz. ; 45/- per gross.

AYRTON, SAUNDERS & CO., LTD.
Manufacturing Chemists - - LIVERPOOL

ALL-SOLUBLE GOLD SEAL SUPER FLAVOURINGS

GINGER JAMAICA
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"Kenilworth"
GINGER ALE, "Belfast"
LEMONS GREEN
LEMONS TRIPLE
LIME JUICE & SODA
ORANGE SWEET
ORANGE BITTER
BLACK CURRANT
PORT FLAVOUR
CAPSICUM
CLOUDY STONE GINGER
BEER
AND OTHERS

*None equal for Flavour,
Solubility, and Concentration*

Below Present Current Trade Rates

All-Soluble Essences supplied in Bond for Export.

WRITE FOR SAMPLES AND PRICES "

Clayton & Jowett

LIMITED.

*Essence Distillers,
Food Colour Specialists*

LIVERPOOL

Managing Director: J. W. CLAYTON, Ph.C., F.C.S.

ESTABLISHED 1845

SOLE AGENTS for CHINA and SOUTH AFRICA—

AYRTON, SAUNDERS & CO. LTD.
LIVERPOOL



Doctors are prescribing Trufood

Humanised Trufood is the closest approximation to breast milk hitherto put forward, as the following analyses clearly show:—

	Breast Milk %	Cow's Milk %	Humanised Trufood %
Lactose	6.5	4.7	6.3
Fat	3.3	3.5	3.3
Casein	0.9	3.0	0.8
Lactalbumen	0.4	0.3	0.6
Salts	0.2	0.8	0.6
Water	88.7	87.7	88.4

Close as is the resemblance revealed by the above figures, the analogy to breast milk is even closer, since Humanised Trufood contains active enzymes and vitamins. The presence of the ferments, amylase, lipase, peroxydase, etc., can be readily demonstrated.

Exclusively a Chemist's Line

The keynote of the Trufood trading policy is to direct every sale through the chemist.

No other channel of supply is open to the public. A trained staff of qualified pharmaceutical chemists are constantly calling upon the Medical and Nursing Professions and their calls are followed by exhaustive circularisation, sampling, etc.

We count upon you to support our efforts to create goodwill between yourselves and the buying public.

You are certain to be asked for Trufood, and should keep at least a minimum supply to meet inquiries. If you are not stocking, write to-day for samples and special trade offer.

TRUFOOD

THE ONLY SCIENTIFIC ALTERNATIVE
FOR BREAST FEEDING



TRUFOOD LIMITED, THE CREAMERIES
Wrenbury, nr. Nantwich, Cheshire

T.F. 107—130

Out of the Tin into the new Jar

A Progressive Move.

THE decision to "scrap" the "Mineral Spring" tin in favour of the export package has been hailed generally as a wise and progressive move.

☐ The handsome varnished carton and exclusive glass jar not only make the shilling package of "Mineral Spring" look much more important, but ensure that the granules will reach the customer in the finest possible condition.

☐ There has been no change in quality, quantity, price, profit margin (33% to 40% on sale price), colour scheme or sales policy. "Mineral Spring" is still "The Chemist's Own Effervescent."

'MINERAL SPRING' HEALTH GRANULES



TRADE PRICES.

1/- size P.A.T.A. ... 8/- dozen.
5 gross lots ... 7/6 dozen.
2/- size. Ready Shortly.

☐ "Mineral Spring" is not supplied to the Grocery Trade.

THOMAS KERFOOT & CO. LTD.
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

QUALITY MAKERS of

Malt Ext. and

All packings.

Malt & Oil

C. Tolkien & Co. Factory & Maltings — Apollo Works, Blackburn.
Offices & Warehouse—Commercial Mills,

Established 1886.

BELFAST—31 Antrim Road.

Dr. DE JONGH'S

LIGHT BROWN

COD LIVER OIL

IN IMPERIAL HALF-PINTS, 4/-

ANSAR, HARFORD & CO., LTD.

182 Gray's Inn Road - - LONDON

SOLE CONSIGNEES.

40 Years' Highest Reputation

Sensen's

NORWEGIAN

COD LIVER OIL

From fishing station at Bretosness. In original barrels, Winchester and bottles with chemist's own name & labels.

Prices and Samples from the Sole Importers—

HERTZ & CO., 9 Mincing Lane, London, E.C.3.

ENERGEN DIABETIC BREAD.

NOTICE TO RETAIL CHEMISTS.

All chemists have heard of ENERGEN BREAD in connection with the dietetic treatment of Diabetes, Obesity, Indigestion, etc., but those who have not handled this profitable line may not be aware that it is specially prepared and put up for the retail trade, and that owing to the special process of starch-reduction it will keep unchanged in flavour and consistency for an indefinite period.

If chemists who receive enquiries for Energen Bread will wire us, we will send a box post free by return, with special printed matter for the patient's doctor, list of wholesalers stocking Energen Products, catalogue, etc.

We trust that this increased facility for placing initial orders may lead to an extension of our business with retail chemists.

THERAPEUTIC FOODS CO.

ENERGEN WORKS (Dept. C.D. 2), Bridge Rd., Willesden, N.W.10

Dr. Allinson's Food Preparations

FOR ALL AGES AND CONDITIONS OF HEALTH AT FIRM AND PROTECTED PRICES.

Food for Babies, Prepared Barley,
N. F. Cocoa, Biscuits, Wholemeal, &c.

See Trade Mark "T. R. Allinson" on all our goods—None Genuine Without.

SPECIAL NOTICE.

We issue a list of WHOLESALE HOUSES who keep above in stock, if for any reason you have difficulty in obtaining supplies, please send postcard direct to us, and a list will be sent to you by return.

NATURAL FOOD COMPANY, Ltd.,
Cambridge Road, Bethnal Green, LONDON, E.

All advertising matter—Booklets, Window Displays,
Showcards, etc., free on application.

N.B.—Our goods are to be sold only at prices stated upon the Price List we issue to the trade, and we are pleased to exchange any article which may be out of condition.

ATKINSON & BARKER'S
INFANTS' PRESERVATIVE

THE BEST AND SAFEST INFANTS'
MEDICINE OF OVER 120 YEARS' STANDING.

Prices and Terms on application to **R. BARKER & SON, Ltd.**
13 Wesley St., C.-on-M., MANCHESTER.

DOES
NOT
CONTAIN
any
SCHEDULED
POISON.

Profitable Business Emulsion

Medicinal Emulsions, to be profitable to you, must be of the highest quality, absolutely pure and entirely efficacious. "Specialty" Emulsions conform rigidly to all these requirements.

A fine range of attractive reservable name and address labels available.



"SPECIALTY" PETROLEUM EMULSION

containing the finest medicinal petroleum, agreeably flavoured. Supplied with or without hypophosphites in 33% and 50% strengths. Packed in special wide-mouth, oval-shaped bottles, in all sizes, with white viscose caps.

"SPECIALTY" PECTORAL PETROLEUM COMPOUND

This preparation is highly beneficial for obstinate coughs, etc., chiefly because of its petroleum basis. It is therapeutically active without any risk of stomachic irritation. Packed only in 4-oz. and 8-oz. special wide-mouth, oval-shaped bottles, with white viscose caps.

"SPECIALTY" COD-LIVER OIL EMULSION

Carefully prepared with the finest quality Norwegian Cod-liver Oil, with or without Hypophosphites, in 25% and 50% strengths. Packed in special wide-mouth, oval-shaped bottles in all sizes with white viscose caps,

Send for Samples and Latest Quotations.

"SPECIALTY" DEPT.

ANGLO-AMERICAN OIL CO., Ltd.,
Albert St., Camden Town, London, N.W.1

Telephones:
Hampstead 4046
and 4047.

Telegrams:
"Nufinjol, Norwest,
London."

NESTLÉ'S MILO FOOD

is about to be advertised in the National Home Papers read by millions throughout the country.

With Fifty Years' Reputation

behind it, the regular demand of half-a-century for this renowned Infants' and Invalids' food is bound to increase with this publicity.

Trade prices from all Wholesale Chemists or

NESTLÉ'S

6-8, Eastcheap, London, E.C.3

NEW STOCK FOR OLD



THE GREAT NERVE FOOD AND FLESH BUILDER

EVERY chemist holding stocks of IRVONA of the obsolete 3/- and 15/- sizes should return them to us, when they will be immediately exchanged for the NEW SIZES at equivalent value.

NOTE REVISED PRICES

1/3 size IRVONA.	Trade Price	12/- per doz.
5/-	"	48/-
12/-	"	115/-

Another line rapidly growing in popularity:—
"IRVOLAX" (the safe aperient).
1/3 size 12/- per doz.
3/- .. (four times the quantity) 27/-

Obtainable through the usual wholesale houses, or direct if cash sent with order.

P. J. WILLIAMS

27 Finsbury Street, LONDON, E.C.2

Make this a "Natural" year
and place your Season's order *now* for

"NATURAL" HEALTH SALT.

The Original Health Salt of the World

You can make it a leading line—it is a ready seller, and the demand grows day by day. The price is popular with the public—the quality is right—and the profit is good.

"Natural" Health Salt was the first in the market, and is still first favourite in thousands of homes throughout the country.

It is the Natural Way to Health.



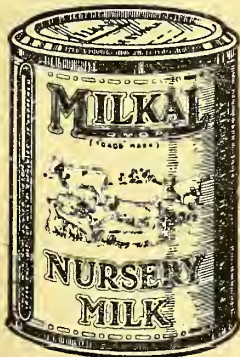
Wilkinson & Simpson Ltd.
NEWCASTLE-UPON-TYNE.

*Tell your Customer -
Clean Milk is now Cheaper*

MILKAL
THE CLEAN MILK

is now reduced from 3/6 to **2/9** 1-lb. size

„ „ „ **1/9½** „ **1/5** ½-lb. „



MILKAL
THE CLEAN MILK

A MOST PROFITABLE LINE FOR YOU
TO HANDLE.

Milkal Nursery Milk, full cream DRIED MILK, is baby's best food from birth, and for mothers and invalids. You can recommend Milkal with every confidence for every milk purpose, and you will find it a most profitable line to handle.

Write for Trade Terms to the Sole Distributors:

J. LYONS & CO., LTD.

Cadby Hall, LONDON, W.14

Produced and packed in Devon (England) by MILKAL, Ltd., London and Devonshire.

Stocks are held at the following depots of Messrs. J. Lyons & Co., Ltd., where you can obtain one or more tins at lowest trade terms:

James Watt St., BIRMINGHAM
28 Aire Street - LEEDS
West End Chambers, Commercial
Road - SOUTHAMPTON
Lambert Place, Lambert Street,
SHEFFIELD

54 Brick Street - LIVERPOOL
Louvaine Crescent,
NEWCASTLE-ON-TYNE
219 West George Street, and Grafton
Street - GLASGOW

96 North Western Street, Ardwick,
MANCHESTER
4 Redcross Street - BRISTOL
68 Millicent Street - CARDIFF
19 Cromford St., NOTTINGHAM

PARFUMERIE





Gold Medal Cannes DE L'ILE NOTRE DAME Philadelphia

THREE POINTS ARE ESSENTIAL TO SUCCESS IN A SELLING POSITION

- 1 **The good will** of the retailer—good profits and a good article, which make it a pleasure to recommend it.
- 2 **Retail price** and “get-up,” which clinch a sale.
- 3 **Quality** of the contents, which brings REPEAT ORDERS.

These three points are embodied in our

WATCH-SHAPE

“ELSTER PLATZ”

Johann Maria Farina

EAU DE COLOGNE



We are actual distillers of Bergamot, Neroli, Lavender, and other oils entering into the composition of Eau de Cologne and Lavender Water, and our prices are based on the manufacturing cost of the oils.

In $\frac{1}{2}$ oz., 1 oz., and 2 oz. Flasks

Also “OLD ENGLISH” Lavender Water in the same Series.

PARTICULARS AND PRICES ON APPLICATION.

SPURWAY ET CIE.
LIMITED.

89 GREAT EASTERN ST., LONDON, E.C.2

Telegrams: “Neroli, London.”
Telephone: Bishopsgate 1372.

Factories & Distilleries: Cannes-Grasse, Riviera.
Technical Laboratories: Paris.

NEW YORK.
KINGSTON (ONTARIO).

The fragrance that has captivated Paris.

LE JADE Perfume



Perfume, Powder, Soap, and Sachet supplied to retail at:—Perfume 8/3, Powder 2/6, Soap 7/6, Sachet 1/-.

The custom you particularly desire to encourage is attracted by a display of Roger & Gallet Parisian Perfumery and Toilet Aids: for women of distinction in all parts of the world know and prefer Roger & Gallet specialities.

For terms and prices of the full range apply to:

ROGER & GALLET (London) LTD.,
14, POLAND STREET, W.1.

ESSENCES

HIGHEST CONCENTRATION.

Sole Agents for Gt. Britain and Colonies

FOR

FRIES & BRO. NEW YORK

The World-Renowned Makers of
FIRST QUALITY ESSENCES.

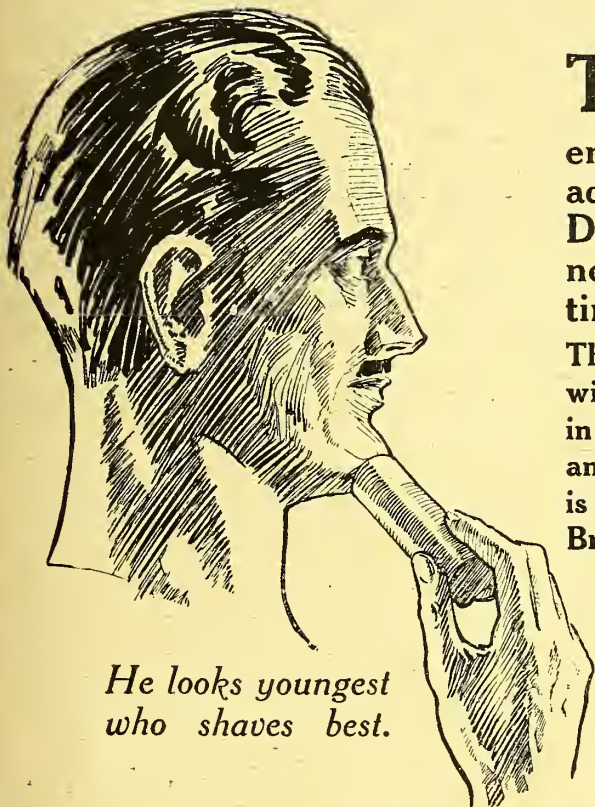
Stocks
in
London.

PEACH
APRICOT
HONEY
MAPLE
&c.

Ask for
Quotations
& Samples.

A. CONNELL & CO., Melba House,
WENLOCK ROAD, CITY ROAD, LONDON, N.1
Phone: Clerkenwell 7266. Tele.: “Nitrozone, Ald. London.”

THE DOMED TOP AVOIDS DISCOMFORT



*He looks youngest
who shaves best.*

THE discomfort of a new shaving stick can be entirely overcome by the adoption of the VINOLIA DOMED TOP which means no sharp edge or loss of time in application.

There is no more profitable, no wider advertised shaving soap in the country—and no better anywhere. Remember too, it is British-owned as well as British-made.

For details of special offers, write to Vinolia Co. Ltd., Blackfriars, London, E.C. 4.

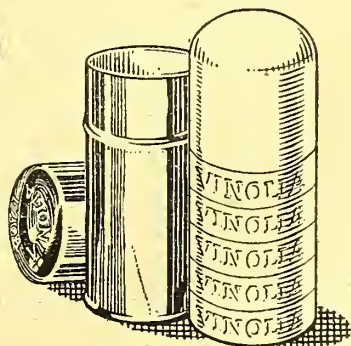
AND MEANS MORE PROFIT TO YOU.

Over 63% may be secured on all VINOLIA Shaving Sticks. Bonus on 3 dozen; 10% on £5 parcels.

Vinolia

SHAVING STICK

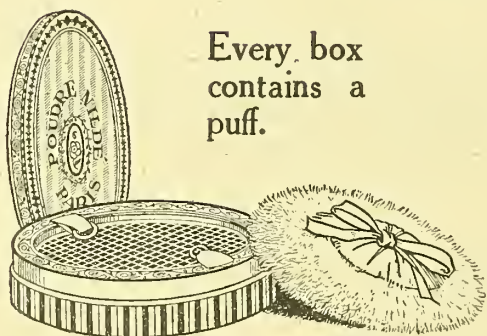
dome-topped and makes the razor glide



Poudre Nildé

Consider the selling points of Poudre Nildé

- 1 Large and persistent advertising which has made the powder a favourite, so that a window and counter display showing that you stock Poudre Nildé pays handsomely.
- 2 Powder of a quality as good as any on the market at *any* price—yet selling at a *popular* price. This means quick and repeated sales and profits.
- 3 The sifter box as a talking point—enables just enough powder to be taken on the puff and no more, thus ensuring evenness of complexion.
- 4 $33\frac{1}{3}\%$ profit on selling price—in reality worth more to the chemist than 50% on a slower moving line. Quick turnover is what makes real money.



Every box
contains a
puff.

Handbag size	-	1/-
Medium	-	2/-
Large	-	3/6

In new Large Box,
without sifter or puff **1/6**

Made in six shades—
rachel, naturelle,
blanche, rose,
basinée & indienne.

Sole Agents :

NILDE (Paris) AGENCY LTD.

296, Regent Street,
London, W.1

'Phone : Mayfair 5282.



Actual size of box.

Rouge Invisible Nildé

in the sifter box

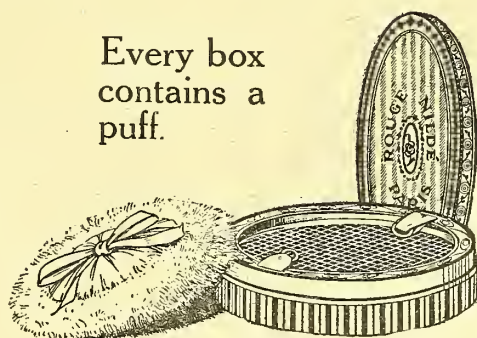
After using Poudre Nildé, a woman naturally buys Rouge Invisible Nildé, in the same practical sifter box. Rouge Invisible Nildé—rouge in powder form—is as convenient and as easy to apply as Poudre Nildé.

Rouge Invisible Nildé is what your customers have always wanted, an undetectable rouge which is easy to use. All the selling points of Poudre Nildé are equally possessed by Rouge Invisible Nildé—consistent advertising, fine quality, sifter box, 33 $\frac{1}{3}$ % profit and quick turnover.

Rouge Invisible Nildé
in the sifter box,
Brune or Blonde.

1/6

Every box
contains a
puff.



Sole Agents:

NILDÉ (Paris) AGENCY LTD.,

**296, Regent Street,
London, W.1**

'Phone : Mayfair 5282.

DEARBORN (1923) LTD.

37 Gray's Inn Road,
LONDON, W.C.1.

Toilet Specialties.

	Price per doz. to Retailer	Selling Price P.A.T.A.
PILENTA SOAP ...	10/-	1/-
A complexion soap.		
PROLACTUM ...	10/-	1/-
For the lips.		
PARSIDIUM JELLY ...	10/-	1/-
For wrinkles.		
ALLACITE OF ORANGE		
BLOSSOM ...	22/6	2/6
A dressing cream.		
BORANIUM ...	22/6	2/6
A hair tonic.		
CLEMINITE ...	22/6	2/6
For a face lotion.		
COLLIANDUM ...	22/6	2/6
For a face tint.		
PERGOL ...	22/6	2/6
A deodorant.		
TEKKO PASTE ...	22/6	2/6
Camphor cream.		
STALLAX ...	22/6	2/6
For a shampoo.		
JETTALINE ...	31/6	3/6
For clearing the skin.		
PHEMINOL ...	36/-	4/-
A depilatory.		
MENNALINE ...	36/-	4/-
For the eyelashes.		
MERCOLIZED WAX ...	31/6	3/6
A face cream.		
STYMOL ...	36/-	4/-
For oily complexions and blackheads.		
SILMERINE ...	22/6	2/6
Hair-curling fluid.		
BARSYDE ...	22/6	2/6
Dandruff eradicator.		
TAMMALITE ...	22/6	2/6
For grey and faded hair.		
LIQUID PERGOL ...	31/6	3/6
To check excessive perspiration locally.		
BICROLIUM ...	22/6	2/6
For whitening the hands.		
COCONOIDS ...	31/6	3/6
For figure development.		

The Products of

Messrs. PARKER, BELMONT & CO.

CLYNOL BERRIES	{ 36/-	4/-
For obesity.	58/6	6/6
SOFT PALERIUM...	45/-	5/-
For wrinkles.		
LIQUID NAIL POLISH ...	10/-	1/-
Brilliant and lasting.		

Stocked by ALL Wholesale Houses.

COLONIAL DEPÔTS AND AGENCIES.

Australia: ALL WHOLESALE, & DEARBORN (Australia), Ltd., Grace House, Clarence Street, Sydney.
South Africa: LENNON Ltd., Cape Town, etc.
 SIVE BROS. & KARNOVSKY, Johannesburg.
India: FRAMJEE & SON, Bombay.
 A. L. CHOUDRY, Calcutta.
New Zealand: SEARLAND & CO., Auckland & Wellington.
South America: DEARBORN (South America) Ltd., Calla Saïta 264, Buenos Aires.
Straits Settlements & Federated Malay States: MEDICAL HALL, Ltd., Singapore.

Nuctone

for GREY HAIR

A NEW SIZE

Retails **3/9** a bottle
at

THIS NEW SIZE WILL BRING YOU MORE BUSINESS

A Smaller size bottle of "NUCTONE" has long been needed to meet the requests of satisfied users who need but a little of this wonderful colour restorer for "retouching."

This new size also contains a sufficient quantity for treating hair in which signs of greyness are first making their appearance. The Retail price is 3/9 per bottle. Trade terms 32/- per doz.

Ample advertising will introduce and sell this convenient size to the ever increasing public who recognise the many advantages of "NUCTONE" for restoring the normal colour to their grey hair.

Order "NUCTONE" from your usual Wholesaler.

Small size 3/9 per bottle. Trade terms 32/- per doz.
 Large size 6/6 " " 52/- "

Showcards and explanatory booklets for free distribution are furnished on request.

THE NUCTONE GUARANTEE.

NUCTONE is guaranteed entirely free from any combination of lead and sulphur, and contains no ingredients that can injure the hair. There is no fear of the after-development of pink or green shades, and colour restored by NUCTONE is unaffected by the action of either sea air or sea water.

NUCTONE for dark and medium hair.

NUCTONE ECLAIRE for fair and auburn shades.

NUCTONE CONCENTRE for Gentlemen

Obtainable from:

HENRY C. QUELCH & Co. Ltd.

4, LUDGATE SQUARE, LONDON, E.C.4
and other Wholesale Houses.

Manufactured by
STEWART, GOODALL & DUNLOP LTD.
 4, Dering Street, London, W.1.

THE LATEST

"Beaverpuf"
TRADE MARK

SENSATION

IS A NEW MODEL TO RETAIL AT

2/6 Complete

Obtain particulars from your wholesaler or write direct.

"Beaverpuf" Ltd.

PRIEST BRIDGE,
MORTLAKE,
LONDON, S.W. 14

Telephone: PUTNEY 166.

SOLE CONCESSIONNAIRES FOR GREAT BRITAIN AND IRELAND.

Issued by the Patentee and
Sole Manufacturer:

FRANK MOUSLEY, "Wilderness" Works,
East Sheen, London, S.W. 14

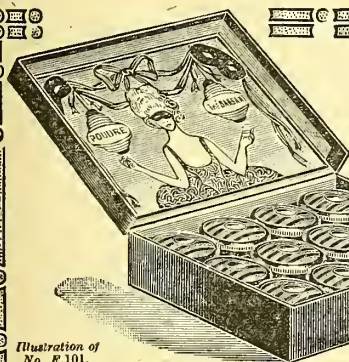


Illustration of
No. F.101.

VERY NEW AND VERY CHARMING.

POUDRE COMPACTE—"THÉ DANSANT"
(Regd.)

In two styles } No. F.100 Complete with Puff ... 7/6 doz.
 } " F.101 " " " and diminishing Mirror 10/6 "

"Thé Dansant" Powder, which is of the very highest grade, is in assorted shades, and is compressed by our entirely new process which gives greatly increased strength and freedom from breakage, while yielding the finest adherent powder in use. Both these lines are wonderful value and will give satisfaction to seller and consumer.

Manufactured only by

SOLPORT BROTHERS, Ltd.
184/190 Goswell Road, London, E.C.1.
and obtainable through all Wholesale Houses.

Also
Stage Powder
Rouge
Crayons
Hair Powder
Lip Sticks
Fett Powder
Cream Paints
Lip Pomade
Brilliantine
Blending Powder
Nose Paste
Pot Carmine

LEICHNER'S
GREASE PAINTS ETC.

SOLE BRITISH AGENTS

VANITIES LTD.

154 WHITCOMB ST. LEICESTER SQ. WC 2

Also
Velvet Puffs
Make-up Boxes
Cold Creams
Manicure
Cocoa-Butter
Wet White
Water Cosmetic
Soap
Removing Cream
Beauty Spots, etc.

Write for
Catalogues.

HOVENDEN'S HAIR TONICS, ETC.

BAY RUM AND CANTHARIDINE

No. 4817.	2½ oz. (about)	...	6/9 doz.
" 4818.	4 " "	...	8/- "
" 4819.	6 " "	...	10/- "

BAY RUM

No. 4820.	2½ oz. (about)	...	6/9 doz.
" 4821.	4 " "	...	8/- "
" 4822.	6 " "	...	10/- "

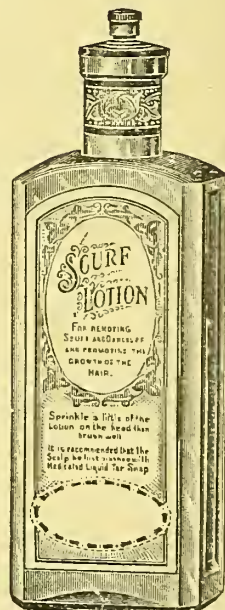
SCURF LOTION

No. 4825.	2½ oz. (about)	...	8/9 "
" 4826.	4 " "	...	10/6 "

Customer's name printed on 3 dozen quantities free of extra charge.

SPECIAL QUOTATIONS FOR QUANTITIES.

SPECIAL NOTE.—Each bottle sold bearing your Name is an advertisement for your business.



EAU DE QUININE.



No. 4832. 2½ oz. with Sprinklers, 12/- doz.
No. 4772. 4 oz. (as illus.) 18/- doz.
No. 4815. 4 oz. Round Bottle, with Sprinkler, 16/- doz.

BAY RHUM, ROSEMARY, AND JABORANDI.



A Dressing for the Hair.
No. 3966. 4 oz. size, 15/- doz.

ZERISMA.

A High-class Non-separating Brillantine.



No. 4735. 4 oz. 15/- doz.

QUININE, JABORANDI & EAU de COLOGNE



No. 3968c. 4 oz. size, 26/- doz.
No. 3968. 3 oz. size, 21/6 doz.
No. 3968b. 6 oz. size, 32/- doz.

R. HOVENDEN & SONS, Ltd., LONDON

89, 91, 93 & 95 CITY ROAD, FINSBURY, E.C.1. Telephone: Clerkenwell 1260 (2 lines);
And 29, 30, 31, 32 & 33 BERNERS STREET, OXFORD STREET, W.1. Telephone: Museum 2810 (3 lines).
Factory: 41 to 53, BRITANNIA ROW, ISLINGTON, N.1.

MASON PEARSON

London England

The Name that Guarantees your Hair Brush!

MASON PEARSON was the inventor of the Pneumatic Rubber Cushion Bristle Hair Brush, and he and his partners obtained a patent for this improved brush in 1885.

¶ This invention was an enormous improvement and a substantial advance in the art of making hair brushes which made the brush more efficient and delightful to use.

¶ Until the expiry of the patent in 1900 the firm of MASON PEARSON were the only manufacturers of this brush, and their experience enabled them from time to time to make improvements in the brush. In 1905 improvements were patented, which patent expired in 1918.

¶ In 1918 further improvements were patented, which patent is still in force.

¶ After the original patent expired others were at liberty to try and make a similar brush, but obviously they could not introduce into such imitations the improvements which were the result of years of patient work and practical experience.

¶ Other manufacturers can, and do, make pneumatic rubber cushion bristle hair brushes such as MASON PEARSON used to make years ago, but no other manufacturer can make the improved brush now sold as the MASON PEARSON HAIR BRUSH, nor will they be able to do so until the expiry of the present patent.

For particulars of Trade prices, which allow a good margin of profit, write:—

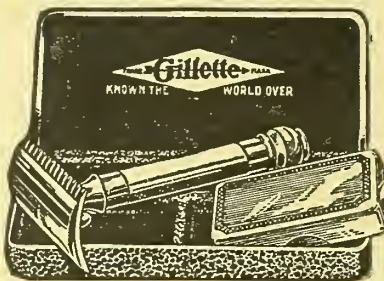


MASON PEARSON
SELLING AGENCY
61 New Oxford Street
London . . . W.C.1



21/-

NEW IMPROVED GILLETTE SETS 21/- AND UPWARDS.



GILLETTE COLLEGE SET. A POPULAR SET AT A POPULAR PRICE.....

5/-



By Appointment
to His Royal
Highness The
Prince of Wales.

GILLETTE BLADES

PACKETS of 10
(20 shaving edges)

4/6

PACKETS of 5
(10 shaving edges) **2/3**

The Gillette Range meets every shaving need — at prices to suit all pockets.

It pays to stock the Gillette line. Each outfit sold means one more regular customer for Gillette Blades.

Write for latest price list and trade terms.

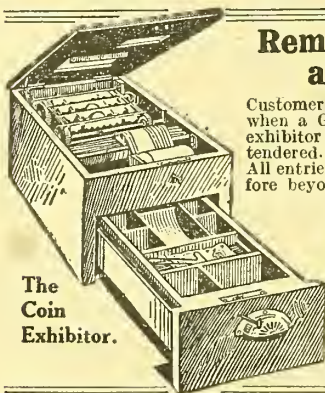
GILLETTE SAFETY RAZOR LTD.
184-188 Great Portland Street, London, W.1.

Gillette

KNOWN THE WORLD OVER

Safety Razor

NO STROPPING. NO HONING.



The
Coin
Exhibitor.

Remove Temptation and Leakage.

Customer and assistant are both satisfied when a Gledhill Till is used, as the coin exhibitor saves argument about the coins tendered.

All entries are in black and white, therefore beyond dispute.

A Gledhill Till frees your mind of worrying details, and is a protection for the honest assistant.

It helps a sound man to a sound business, and is a necessity, not a luxury.

G. H. GLEDHILL & SONS, Ltd.

16 Trinity Works,
HALIFAX, England.

HAIR-, HANDLE-, DUST- AND POCKET-COMBS

*of the very finest quality
made in first-class*

ARTIFICIAL HORN.

Also in

**IMITATION TORTOISE - SHELL
AND TRANSPARENT COLOURS.**

Manufactured as a Speciality.

**D. W. SCHULTE, Neuss-Zoppenbroich,
Chemical Works, Germany.**

Established 1840.

AGENTS WANTED.

Captain Wyndham's Royal Water Softener

*Finest Toilet Preparation
Entirely free from Soda*

From all Wholesalers.

London Depot: 76 Chiswell St., E.C.1

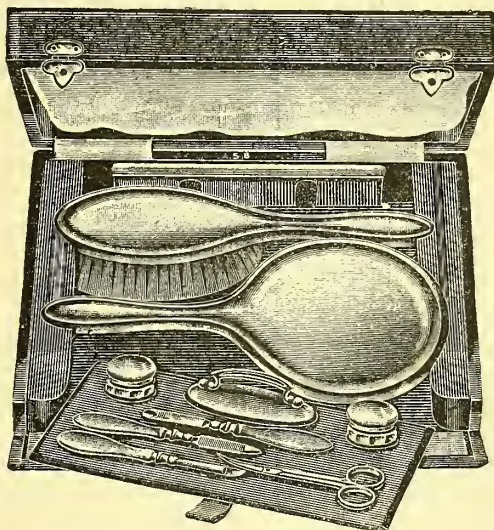
ADOLPH SCOTT, LTD.

24, 25, 26 *Gt. Hampton Street* - *BIRMINGHAM*

Large Range of
Goods
suitable for
Chemist's Fancy
Department.

□ □

In SILVER,
TORTOISE SHELL,
IVORY, EBONY,
IMITATION SHELL,
XYLONITE, &c.



CASED TOILET SETS,
MANICURE SETS, &c.

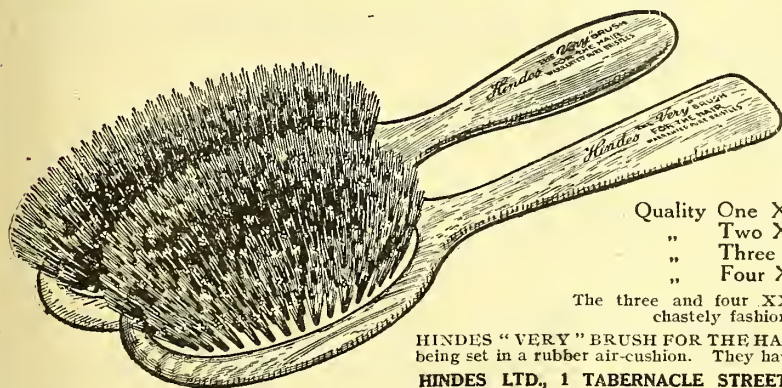
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Also

LOOSE HAIR BRUSHES,
MIRRORS,
POWDER JARS,
SMELLING SALTS,
SCENT BOTTLES and
SPRAYS.
TRINKET BOXES.

□ □

CUT GLASS TOILET
SETS & POWDER BOWLS



HINDES "VERY" HAIR BRUSH

Quality One X	Sold at 7/6d. each.	TRADE PRICE 33 1/3%
" Two XX	" 10/6d. "	
" Three XXX	" 15/- "	
" Four XXXX	" 18/6d. "	

The three and four XXXX grade is made in Ebony or Rosewood chastely fashioned in both oval and circular bodies.

HINDES "VERY" BRUSH FOR THE HAIR is guaranteed pure bristles the multiple tufts being set in a rubber air-cushion. They have been known to the trade for nearly 40 years.
HINDES LTD., 1 TABERNACLE STREET, LONDON, E.C. :: Works: BIRMINGHAM

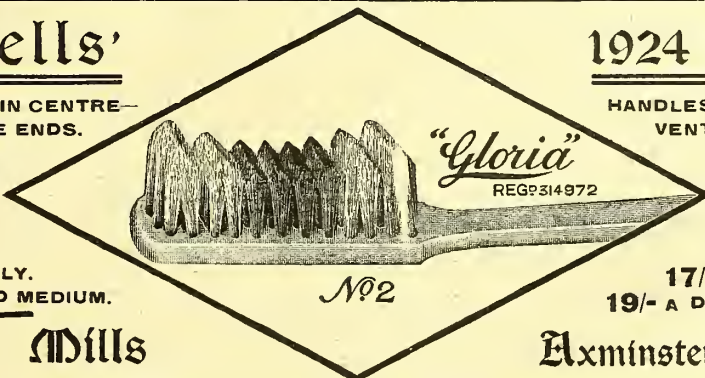
Bidwells'

YELLOW BRISTLE IN CENTRE—
WHITE BRISTLE ENDS.

IN TRANSPARENT
TUBES, STERILISED
AND SEALED AT
FACTORY.

BEST QUALITY ONLY.
HARD AND MEDIUM.

Castle Mills



1924 Model

HANDLES ASSORTED—
VENTILATED—
HOLE IN HANDLE
STRONG IN CENTRE
WHERE STRENGTH
IS REQUIRED.

17/- A DOZ. MEDIUM.
19/- A DOZ. HARD.

Exminster, Devon



A Profitable Trio

Colder weather brings demand for the Soothing Snowfire Preparations. Snowfire Vanishing Cream revitalises the skin and enables every woman to gain and retain Beauty of Skin Texture. Snowfire Soap free from excess of Alkali keeps the most delicate skin in health and cleanliness. Stock the Snowfire Skin Health Trio, all containing the same healthful emollients which have made Snowfire famous.

SNOWFIRE TABLET
SNOWFIRE CREAM
SNOWFIRE SOAP

and so increase your winter profits with the aid of these well advertised Snowfire Preparations.

Snowfire

Write to-day for terms and particulars to the Sole Manufacturers,
F. W. HAMPSHIRE & CO. Ltd., Riverside Works, Derby.

CHICAGO HAIR DYE

INVENTED 1893.

One Bottle
Preparation.

Harmless to use.

IN FIVE SHADES:

Light Brown
Brown
Dark Brown
Black
Blonde

Retail 2/-

Cost 11/- per doz.

Profit over 100%
on cost.

Proprietors—

SINGLE, DALBY & CO.
42 Oldham Road, MANCHESTER



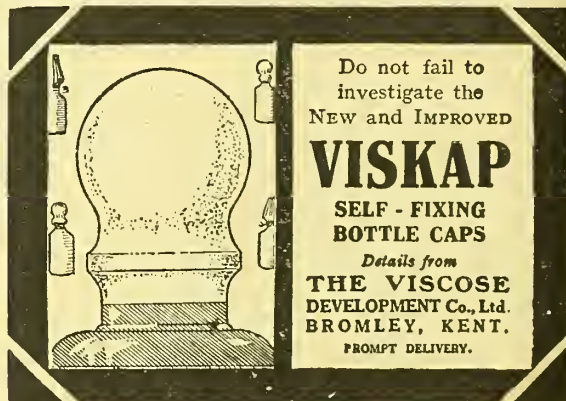
G. B. KENT & SONS, LTD.

Are known the World over as
the Largest Manufacturers of

BEST BRITISH BRUSHES

Please write for full Particulars to—

75 Farringdon Road, E.C.1.



Every Chemist should stock ARCHIBALD'S OATMEAL CREAM

for chapped and rough skins, in 7½d. and 1/3 tubes; on the P.A.T.A. 5/- and 10/- dozen. The demand for this popular line is increasing rapidly. Well advertised and stocked by all wholesale houses. Write for special terms to

The ARCHIBALD CO., 190 Broadhurst Gdns., London, N.W.6.



PAPIER POUDRÉ POPPÉE ROUGE

Made in Booklet Form in White, Rose and Rachel tints. 4d., 6d., 8d., and 1/4 sizes at 2/8, 3/9, 5/- and 10/- per dozen nett, respectively.

ONE SIZE ONLY 1/-, at 8/- per dozen.

Sole Proprietors and Manufacturers:

PAPIER POUDRÉ, Ltd., 46 Baker Street, W.1
NONE GENUINE WITHOUT ABOVE TRADE MARKS.



LORIMER-MARSHALL

for

PACKED GOODS



THE UNIVERSAL EMBROICATION

A special Embroication for Athletes and for general use.

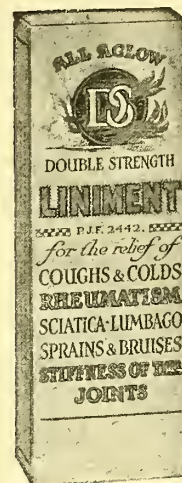
4-oz. plug-stoppered Flats 8/- per dozen.

DOUBLE STRENGTH LINIMENT

"ALL AGLOW."

Oils of Camphor and Amber, with
Capsici and other Rubrifacients.

Nicely Cartoned 3-oz. Mexicans 9/6 per dozen.



LORIMER-MARSHALL, Ltd., 12 Tower Hill, LONDON, E.C.3

G R



OF PARTICULAR IMPORTANCE TO THE MEDICAL PROFESSION

An extraordinarily comprehensive stock unrivalled as to quality and quantity of
SURGICAL INSTRUMENTS **X-RAY & ELECTRO-MEDICAL APPARATUS**
PATHOLOGICAL APPARATUS **DRUGS AND MEDICAL SUNDRIES**
DENTAL STORES & INSTRUMENTS **BY ALL THE LEADING MAKERS**

SOME ITEMS OF SPECIAL INTEREST:

Glass Spirit Lamps, 4 oz....	1/6 each.	Sponge Forceps, 7" to 10"...	5/6 to 7/6 per pair.
Stoppered re-agent bottles, 2 oz. to 20 oz.	2/- to 20/- per doz.	Dental Amalgam	1/9 per oz.
Sinus Forceps	2/6 to 5/- per pair.	Optical Cases (trial) ...	£6/6/0 each.

These Stores represent the balance of the surplus stock of H.M. GOVERNMENT
DISPOSAL BOARD and are now offered for sale by

GEO. COHEN & ARMSTRONG DISPOSAL CORPORATION

to whom all enquiries should be addressed at

**MEDICAL STORES DEPARTMENT, C.S.D. Depot No. 5,
Wood Lane, Shepherd's Bush - - - LONDON, W.12**

Telephone: Park 5303 Ext. 25.

Telegrams: "Medstrong, Shepherds, London."

BEST VALUE AND BRITISH!

When it's Plasters Talk Taylor's it Tells

MINIMUM PROFIT
100% ON COST.

SUPPLIES OBTAINABLE FROM THE LEADING WHOLESALERS.

Edward Taylor Ltd.
SALFORD

and 21 Ely Place, London, E.C.1

When Better Plasters are made
Taylor's will make them.

GEORGE MACLELLAN & CO. LTD.
MAKERS OF EVERYTHING
WATERPROOF & RUBBER
GLASGOW RUBBER WORKS
MARYHILL, GLASGOW.
ESTD 1870

AIR & WATER BEDS.
H.W. BOTTLES.
CHEMIST MATS.
HOSPITAL SHEETING & BED SHEETS.
TUBING.
SOAP MATS.
AIR CUSHIONS & BED PANS.
NURSING APRONS.
& SHAVING CUPS.
G.P. TISSUE.

HOOPER & CO.

CHEMISTS' SUNDRIES.
SURGICAL RUBBER GOODS.
HIRE DEPARTMENT.

Reliable Hot Water Bottles.

26 Charlotte St., London, W.1.

TELEphone: Museum 2150 (Three lines).
grams: "Superabound, Wesdo, London."

DR. SCHOLL'S TOE-FLEX

Corrects bunions, straightens crooked toes by mechanical action. Made of finest soft surgical rubber it gently restores the joint to its normal position. Three sizes, price 2s. each.



Dr Scholl's
Foot Comfort Appliances

give immediate relief and permanent correction to every type of foot trouble. By linking up, through strong window displays, with "Scholl" National Advertising you will obtain your share of the tremendous demand we create, thereby greatly increasing your profits.

Write to-day for full particulars.

The SCHOLL MFG. CO., Ltd., 1-4 Giltspur St., London, E.C.1

1/6 and 2/6, and 7lb. Tins
at P.A.T.A. Terms.

Obtainable through the wholesale trade,
or apply for special agency terms to—
JOHNSTON & ADAMS, DUNDEE.



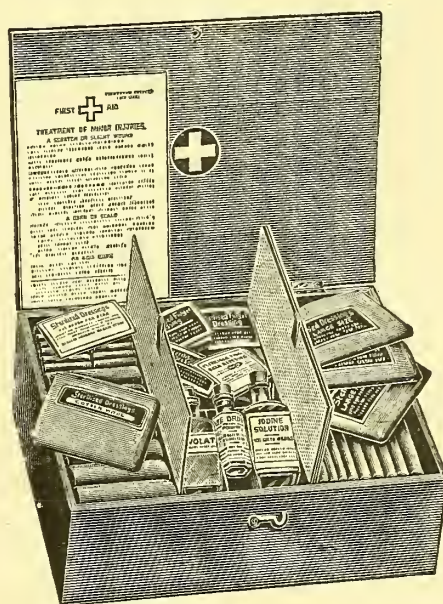
SLIPPERINE
REGISTERED

**Our
Complete
Price List
of
Druggists'
Sundries
is now
Ready.**

If you have
not already
received a
copy, we
shall be
pleased to
send one
to you on
receipt of
card.

FIRST-AID CASES

As required under the
Workmen's Compensation Act, 1923



Made in 4 sizes.

Prices: from 17/- to 58/- each

Write for full particulars and special terms

WILLIAM TOOGOOD LTD
77 SOUTHWARK ST LONDON SE1

Telegrams:
"AYBELIM, FINSQUARE,
LONDON."

ARTHUR BERTON, Ltd.

Telephones:
CLERKENWELL
1347-8-9.

MANUFACTURERS,

SHOWROOMS AND
WAREHOUSES

15 & 17 WORSHIP STREET, LONDON, E.C.2

GLASGOW: 84 MILLER STREET.

MANCHESTER: 36 CHAPEL STREET, VICTORIA BRIDGE.

IMMEDIATE DELIVERY.

CAPSICUM COTTON WOOL

A HIGH-GRADE COTTON SPECIALLY TREATED WITH

CAPSICUM and METHYL-SALICYLATE

The Best and Safest Dry Heat Producing Combination.

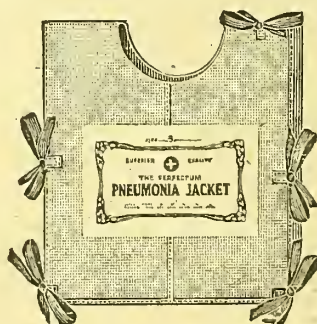
Put up in small
and
large Cartons.



An attractive
Showcard
given with each
order.

PNEUMONIA JACKETS

Made in six sizes
8 in. × 6 in. to
21½ in × 15½ in.



Specials to order
per return.

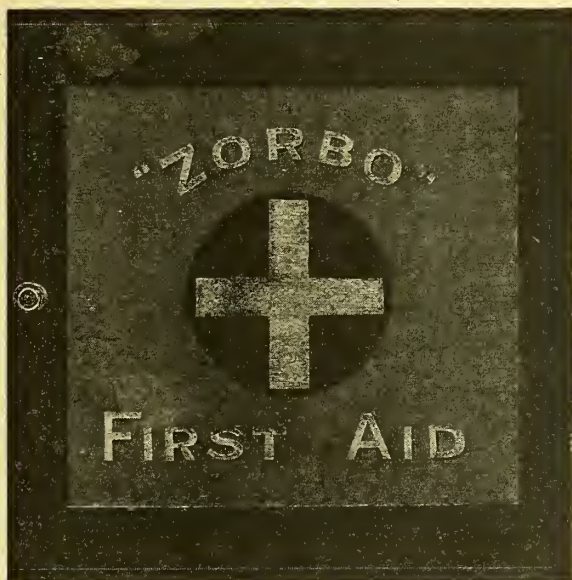
MANUFACTURED IN OUR LONDON FACTORY UNDER
QUALIFIED SUPERVISION.

YOUR ENQUIRIES RESPECTFULLY SOLICITED

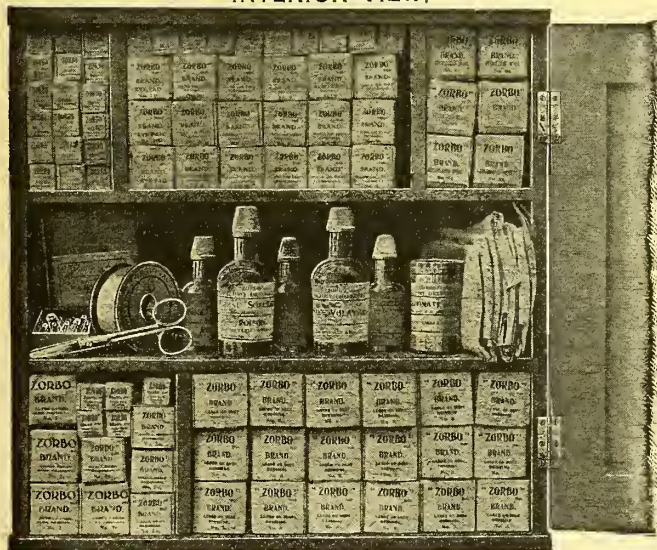
for FACTORY FIRST AID

under the Workmen's Compensation Act regulations
which came into force on JANUARY 1st, 1924.

FRONT EXTERIOR VIEW.



INTERIOR VIEW.



THE DOOR CAN BE MADE TO OPEN AS ILLUSTRATED
OR TO OPEN DOWNWARDS, WHICHEVER IS PREFERRED.

**SPECIALLY DESIGNED
FOR EASY ACCESS.
STRONGLY MADE.**

For factories employing less than 50 persons.

CASE NO. 117.

6 No. 1 Finger Dressings. 6 No. 2
Finger Dressings. 6 No. 4 Small
Wound Dressings. 6 No. 5 Large
Wound Dressings. 6 No. 7 Finger
Burn Dressings. 3 No. 9 Large
Burn Dressings. 3 ½-oz. Ster. Wool
or 6 ¼-oz. 1 oz. 2% Iodine Solution.
1 oz. Sal. Volatile. ½ oz. No. 1 Eye
Drops. Copy of Form 923.

Price, 22/6 Each.

For factories employing more than 50
persons where separate ambulance room or
splint cupboard is provided.

CASE NO. 118.

24 No. 1 Finger Dressings. 12 No. 2
Finger Dressings. 12 No. 4 Small
Wound Dressings. 12 No. 5 Large
Wound Dressings. 6 No. 7 Finger
Burn Dressings. 12 No. 8 Small
Burn Dressings. 6 No. 9 Large Burn
Dressings. 6 ½-oz. Ster. Wool. or 12
¼-oz. 2 oz. 2% Iodine Solution.
2 oz. Sal Volatile. ½ oz. No. 1 Eye
Drops. Copy of Form 923.

Price, 32/6 Each.

For factories employing more than 50
persons where NO separate ambulance room
or splint cupboard is provided.

CASE NO. 119.

Items same as Case No. 118, with the
following additions:

6 Ambulance Splints. 2 Rolls, 4 oz.
each. Splint Padding. 1 Webbing
Tourniquet. 5 yds. 1 inch R.A.
Plaster. 6 Triangular Bandages.
4 of each, 1"×3 yds. 2"×4 yds.
3"×6 yds. W.O.W. Bandages. 36
Safety Pins (Assorted). 1 Gradu-
ated Measure. 1 pair Scissors.
1 pair Splinter Forceps.

Price, 60/- Each.

Carriage paid on £5 orders in England & Wales.

All prices are subject to alteration without notice.

Robert Bailey & Son, Ltd.
Marriott Street Mills - - STOCKPORT

Phone: Stockport 2794.

Wires: "Undisputed, Stockport"

THERMOS PRICES REDUCED

A N IMPORTANT DEVELOPMENT



has taken place in the "Thermos" Organisation by which the output will be increased, new lines introduced, and prices reduced. The effect on "Thermos" Dealers will be to place them in a better position than retailers of any other make of Flask. Dealers are advised, therefore, to make such arrangements as will enable them to take the fullest advantage of our new proposals, which were published in THE CHEMIST AND DRUGGIST of February 23.

THERMOS LIMITED

12/14 DENMAN STREET, PICCADILLY CIRCUS, LONDON, W.

Telephone: Regent 2578

Wires: "Cythermoso, Piccy, London."

ELASTIC ANKLETS
and **KNEE CAPS** FROM 24/-
PER DOZEN
THE ALTRINCHAM RUBBER COMPANY
Kingsway, Altrincham.

TINORI
PAINLESS } NEVER FAILS
CORN CURE }

A line the Stockist may strongly recommend, knowing that he is meeting the case with articles of unvarying reliability:—

"SURCO" SEAMLESS SURGICAL HOSIERY

comprising ELASTIC STOCKINGS, BELTS, SUSPENDERS, TRUSSES, etc.

Write for Price Lists and Measurement Forms to the Patentees and Manufacturers:

THE SURGICAL HOSIERY CO. LTD., Dept. B, Russell Street, NOTTINGHAM.



Advertising Balloons

SQUEAKERS,
DYING BOARDS,
SWANS, BIRDS,
ELEPHANTS. &c.

WHOLESALE & EXPORT
ENQUIRIES INVITED.
WE ARE ACTUAL MANUFACTURERS

JOSEPH HARRIS & COMPANY
RUBBER WORKS, BROADHEATH, ALTRINCHAM.

A VERY EFFECTIVE
FORM OF ADVT.
SPECIAL DESIGNS
SUBMITTED.

INVALUABLE IN MATERNITY

And all cases where adaptability, elasticity and support are needed.

NORVIC

(Regd.)

Crepe Binders



are recommended by doctors and nurses everywhere. In all widths up to 11 inches they will stretch to double their length, yet firm and strong. Soft, clinging and hygienic.

Sole Manufacturers:
GROUT & CO.
LTD.,
GREAT YARMOUTH.

Stocked by all the leading wholesalers

RADIO PACK

RADIO PACK does *much more* than any HOT WATER BOTTLE, and does it *better*. **Q**, Radio Pack generates its own heat and remains *effective* for 12 hours without attention.

**Never too Hot
Never too Cold**

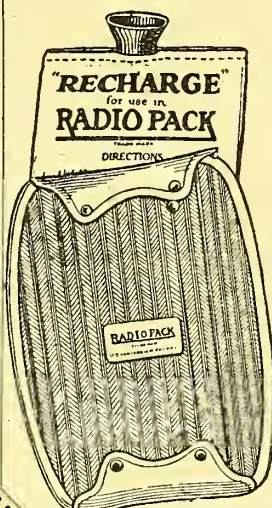
Radio Pack is invaluable in case of sickness—less work for the nurse and less disturbance and discomfort for the patient.

**Radio Pack
cannot leak**

Send trade card or letter-heading for full details and prices.

**S. GUITERMAN
& COMPANY Ltd.**

35 Aldermanbury,
LONDON, E.C.2



What would happen to **YOUR** business if you were temporarily disabled by

ACCIDENT OR SICKNESS?

Your financial loss is bound to be great. Therefore, safeguard yourself and your business by taking out a

PERSONAL ACCIDENT & SICKNESS POLICY

Issued by

THE LICENSES & GENERAL INSURANCE CO., LTD.

24, 26 & 28 MOORGATE, LONDON, E.C.2.

Reduction of Prices

**Important Note
to Chemists
without Licenses**

It has been established by law that Registered Chemists may sell Wincarnis with Quinine *without* a License.



**Sells readily ALL
the time.**

COLEMAN & CO., Ltd., Wincarnis Works, Norwich.

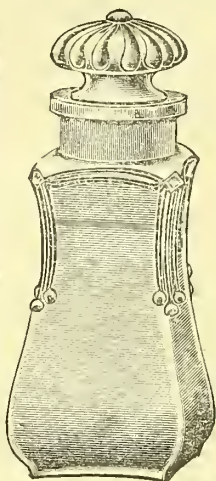
*New Prices to
the Public:*

Large Size **5/-**

Small Size **3/-**

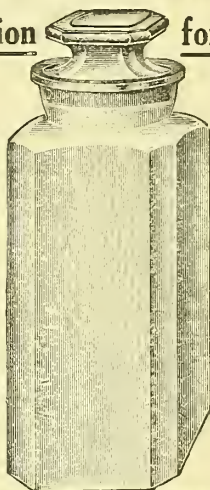
ATTRACTIVE BATH SALT CONTAINERS

A Smart Suggestion for a Profitable line



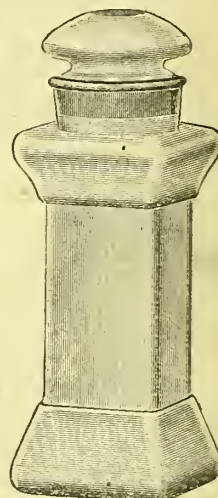
We have designed a variety of attractive Glass Containers for Bath Salts, 3 designs of which are illustrated here.

NEARLY 15,000 CASES
OF GLASSWARE OF
EVERY CONCEIVABLE
DESCRIPTION IN STOCK.



These Containers are being offered at a very low price, and will pay for themselves many times over in increased Sales.

Send to-day for our
Illustrated List.



JULES LANG & SON

(Opposite
Agricultural Hall.)

Telephone—
North 2770-2 (3 lines).

The Glass Specialists
CHARLTON PLACE
ISLINGTON LONDON N.I.

Telegrams—
"Assorted, 'Phone, London."
Codes—A B C 5th Edition,
Scott's 10th Edition, 1908
and Bentley's Complete
Phrase Code.

LONDON COLLEGE OF PHARMACY

Principals—HENRY WOOTTON, B.Sc. C. W. GOSLING, Ph.C.

April 9th.—Three Months' Revision Course (Minor)

Books published at London College:—

Essentials of Pharmacy	...	...	5/- post free
Analytical Tables	...	...	2/6 " "
Volumetric Analysis	...	...	2/- " "
Map of Habitats	...	...	2/6 " "

London College Passes—Pharmaceutical Examinations

Year ending July, 1921—Part I. 73—Part II. 142

Year ending July, 1922—Part I. 82—Part II. 115

Apply—

THE SECRETARY, 361 CLAPHAM ROAD. LONDON, S.W.9.

MANY SUCCESSES IN THE EXAMINATIONS!

Your Opportunity to

QUALIFY IN OPTICS

PRACTICAL WORK. Students taking the Course may receive personal tuition in the practical work. AT ANY TIME DURING THE COURSE.

Expert Tuition for the *SIGHT-TESTING DIPLOMAS* of the Worshipful Company of Spectacle Makers (F.S.M.C.); the British Optical Association (F.B.O.A.), or the National Association of Opticians (F.N.A.O.).

Write for full particulars—

C. A. SCURR, M.P.S., F.S.M.C., B.Sc., F.I.O., F.N.A.O., etc.
50 High Street BARNET
(N.Z. Representative: C. AITCHISON, PALMERSTON Nth.)

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Principals:

G. S. V. WILLS, Ph.C. (Founder), P. H. WOODNOTH, Ph.C., F.C.S.

Revision Course for July Examination
commences April 9th

Entries now being received for full course
commencing - - OCTOBER 8th 1924

For full particulars apply to the Principals,
190 CLAPHAM ROAD, S.W.9.

NURSE HARVEY'S MIXTURE

A safe, simple, and reliable remedy for Children's Ailments is advertised so extensively in the daily and weekly Press as to bring mothers to the retailer without effort on his part.

The selling has been done before the mother reaches the chemist, and, having supplied her, it is only common sense to claim she will buy other family necessaries from him. Moreover, the retailer has a profitable return on a quick turnover.

For Direct Terms apply to—

OSCAR SCRUTON & CO., YORK



CONSISTENCY

"CONSISTENCY" is a characteristic of every U.G.B. Bottle manufactured for the Chemist, Druggist, or Medical Profession.

Only faultless materials are used, and the utmost care exercised throughout the manufacture.

The vital importance of accuracy in contents, corkage and graduations is the first consideration in the manufacture of U.G.B. Bottles, and constant watch and inspection is kept to ensure that these essentials are absolutely correct. Appearance and finish are always consistently good.

You may place orders for U.G.B. Bottles of all kinds with the greatest confidence.

UNITED GLASS BOTTLE MANUFACTURERS • LIMITED

Comprising—

Cannington, Shaw & Co., Ltd.; Nuttall & Co. (St. Helens) Ltd.; Robert Candlish & Son, Ltd.; Alfred Alexander & Co., Ltd.; E. Breffit & Co., Ltd.; United Glass Bottle Mfrs. (Charlton) Ltd.

Head Office :

40/43 NORFOLK STREET, STRAND, W.C.2

Telephone : Central 8080 — 8089 (10 lines).

Telegrams : "Unglaboman, Estrand, London."

Works :

Charlton, London; St. Helens, Lancs.;
Castleford, Yorks; Hunslet, Leeds; Sea-
ham Harbour, Durham

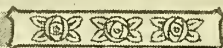
This mark on our bottles is the guarantee of accuracy of capacity and graduations. There is no better bottle manufactured.



BOTTLES

*and Glassware
of Every Description
for The Trade*

WHOLESALE ONLY



In all colours

MEDICAL FLATS

PANELS

VIALS

POISONS

LYSOLS

LIMES

KALIS

MEXICANS

PERFUMES

FEEDING BOTTLES

2c., 2c.



LAX & SHAW

LIMITED.

*Albert Glass Works,
Hunslet, Leeds.*

BE LINDA GLASS WKS. HUNSLET. CLARENCE GLASS WKS. HUNSLET
TELEGRAMS FEEDERS, LEEDS. TELEPHONES 27047, 23080



Collapsible Tubes



Now is the time to Buy your
Equipment for this year.

**TIN IS CHEAP
DEMAND IS SLACK
LABOUR IS DEAR**

Our Works are equipped with the latest labour-
saving machinery, hence
PRICES ARE MODERATE.

Beit's & Co. Ltd.

1. Wharf Rd., City Rd.

London N.1.

Established 1857

In Commerce

much money is lost by trying to manufacture too many different things under one roof.

It is the specialised manufacturers who can sell their product.

We specialise in *long runs* labels and wrappers.

Write
Dept. C.

Send us your specification and let us quote.
We are sure we shall save you money.

The Berkshire Printing Co. Ltd.

King's Road, Reading.

TO INCREASE YOUR REVENUE SELL

"TOINOCO"
The Original Brand.

PAPER HAND ^{KFS.}

THEY MEAN INCREASED SALES.

The only Paper Handkerchief regularly advertised. Face Price. Minimum Retail.

They are not a Substitute for anything else you sell. There is no Substitute for them.
"Silky Fibre," 50 for 2s. "Papier Crepon," 50 for 1s. 9d. Toinoco Handkerchief Co., Ltd., 55 Hatton Garden, London, E.C.1

BATTLE'S VERMIN KILLER

kills
**Rats, Mice and other
vermin instantly.**

It's efficiency as a destructive agent is constantly testified to by users in all parts of the country.

Of all Patent Medicine Houses at 3/-, 5/- & 9/- per dozen.

In packets at 5d., 9d. and 1/3 each. (P.A.T.A.)

Are your stocks adequate?

Prepared only by **BATTLE, SON & MALTBY**
Manufacturing Chemists, LINCOLN.

Every Wise Farmer
Uses



Tipper's
**COWS
RELIEF**



RETAIL PRICES.
2/9, 6/-, 14/-, and
21/- per tin.

Invoiced to the
Trade at

2/6, 5/6, 13/6, and
20/- respectively,
and subject to 20%
discount.

Carriage paid on orders of
40/- net. Postage charged on
small lots.

B. C. TIPPER & SON,
The Veterinary Chemical Works,
BIRMINGHAM.

TIN CANISTERS

PLAIN, GOLD LACQUERED AND STOCK DESIGNS.
OINTMENT TINS, HEALTH SALTS &c. FROM STOCK.

HORNBY & Co., DEPT. "T" 36, High St., Hull

YOU AND WEEDICIDE

WILLIAM COOPER & NEPHEWS, Ltd.,

Manufacturing Chemists, Berkhamsted,

INVITE THE TRADE to communicate with them in regard to the stocking of "Weedicide" and other highly efficient Cooper Weedkillers (liquid and powder).

These articles are in great demand, and carry a "worth while" profit to the stockist. Last year "Cooper" Agents eclipsed all previous selling records.

MAY WE HAVE THE PLEASURE OF HEARING FROM YOU?

There's
Money
in
Cooper's
"Weedicide"
for the
Stockist

BATTLE'S

WRITE TO

FOR

Standard DISINFECTANTS for all purposes.

Carbolic, Pine and High-Coefficient Fluids.

Superior Grade LYSOL in attractive cartons.

DOG SOAP, POULTRY & PIG POWDERS, etc.

High-class attractive decorated tins and cartons. "Agent's own name."

BATTLE, HAYWARD & BOWER (formerly BATTLE, MALTBY & BOWER), Victoria Chemical Works, Lincoln.

The Cauld is Tellin' on the Rats

They're comin' in by scores,
Ye needna try to keep them oot
By merely steekin' doors.

There's lots o' fancy dopes for Rats,
But "Rodine" croons them a';
Jist try a sneechin' spread on bread,
It maks maist Rats feel Sma'.

A Chemist o' Fife.

This is How "Rodine" appeals to a prominent Chemist in Fife.

"Rodine" is not only good for the Rats, but it is The Poison with the Preference—most Chemists prefer to push "Rodine"—it pays nearly 100% profit on every sale. This is the best time to push the "Rat Crusade." Do it now.



Sole Maker and
Proprietor:—

T. HARLEY

Manufacturing
Chemist,

PERTH, Scotland.

WATERGLASS

(140° TW:)

In 1, 2, 4 and 7 lb. TINS

SMARTLY LABELLED.

Please apply for Quotation

(WITH SPECIMEN LABEL).

NEWBALL & MASON

NOTTINGHAM.

PRECIPITATED CHALK

LIGHTEST, Dense & all grades
TO SUIT ALL PURPOSES

CHEMICALS: Fine and Heavy.

'Phone: Central 4613.

Tel. Add.: "Levermore, Phone, London."

A. LEVERMORE & CO., LTD. ABC Codes
8-10 GT. ST. HELENS, LONDON, E.C.3 5th & 6th Editions

PURE ORANGE WINE

A. MILLAR & CO., LTD., DUBLIN

VINUM AURANTII B.P.)

Prepared in strict accordance with the Formula of the British Pharmacopoeia.

(Wholesale only)

Samples from Head Office, Thomas Street, DUBLIN. or London Office, 74 Great Tower Street, LONDON, E.C.3.

FREDK. FINK & CO.

10 & 11 MINCING LANE, LONDON, E.C.3.

SPECIALITIES.—Gums Arabic and
Tragacanth as Imported or finely powdered

DR. STEDMAN'S TEETHING POWDERS

P.A.T.A.

12/- boxes, containing 240 powders,
11/- each. 5% dis. off £5 for Cash.



125 NEW NORTH ROAD, LONDON, N.1

FORSTERS & VAPOURISERS
for
FENOLIN Whooping Cough
FLUID Hall, Forster & Co., Ltd.
Newcastle-on-Tyne.

ON P.A.T.A.
421 (1/5) 11/-

Fields
FOR *Cartons*

SOUTHGATE
FIELD SONS & CO. LTD. BRADFORD

TINS BOXES & CANISTERS

(made in our own works)
at keenly competitive prices.

Let us quote for any kind or size you
need. Or ask for list of STOCK TINS

GOODALL, BACKHOUSE & CO., Leeds.

BOOKS FOR PHARMACISTS.

Send us a postal card and we will send you a 32
page catalogue of professional and business books
for pharmacists, and a copy of

"THE SPATULA"

an illustrated monthly magazine for druggists, full
of American snap and enterprise.

THE SPATULA, BOSTON 14, MASS., U.S.A.

SHERLEY'S

DOG MEDICINES

INSECT POWDER

SHAMPOO, and

LACTOL

(P.A.T.A.)



These preparations command a ready sale, and are by far
the largest advertised of any on the market. They are
protected at prices that leave an excellent margin of
profit for the retailer, and the terms on which they are
supplied preclude any possibility of loss.
We have an excellent range of literature and show cards,
and do all in our power to assist chemists by referring
mail customers to them.

Write for Price List and Terms.

A. F. SHERLEY & CO., LTD.

18 MARSHALSEA ROAD, LONDON, S.E.1

Tel. No.: Hop 1897. Telegrams: "Sherleydom, London."

PUSSHAN POINTS TEA

If increasing your business every day
is of paramount importance to you, and
we reckon it is,—then investigate our
P.P.T. plan at once—lose no time—get
sample and "Every Day More Business"
circular. NO ADVERTISING THAT
A CHEMIST CAN DO BRINGS IN
SO GOOD OR BETTER RETURNS
at so trifling an outlay.

THOS. CHRISTY & CO., 4-12 Old Swan Lane, E.C.4

The New "99" VALET RAZOR to retail at 2/6

6 doz. for £5 0 0 3 doz. for £3 3 0
1 doz. for £1 2 6 Subject to 2 1/2 % discount.

VALET BLADES, 36/- box net.

VALET (6/- Model) Razors, gold plated in Metal Case, 48/- doz.

GILLETTE BLADES AND RAZORS.

U.S.A. (in 10's and 5's) 30/- per box; 3 boxes, 29/- per box

CANADIAN (in 6's and 12's) 27/3 3 boxes 26/10 "

BROWNIES (with 1 blade) 16/6 per doz.

"460" Old Type, 21/- (Black Case) 3/- each, 32/6 doz.

New Improved "Bostonian," Tuckaway, Richmond, New Standard, &c.,

in stock at keenest prices.

EVER READY BLADES AND RAZORS.

31/- gross with 24 free Razors; 1/2 gross with 12 free Razors, 16/- 7/6

New Yellow Metal Razors, 18/6 doz. Clemak, Durham-Dunlop,

7 o'clock Blades, 1/8 package. Hair Brushes, Shaving Brushes, Bath

Soaps, Face Powders, Foot Powder. Send for list. Cash with orders.

No connection with any other firm.

ALFRED FRANKS 23 BARTLETT'S BLDGS., LONDON, E.C.

Tel.: Holborn 4760.

Messrs. Saltrates Ltd.,
London, W.1.

Dear Sirs,

Please send enclosed order carriage paid.
Reudel is very restless. I have difficulty in
keeping it on the shelf.

This may interest you:- At the same time I
received an order for Reudel by post yesterday.
I had a customer at my counter calling for a second
packet. A few moments after, another customer called
for 3/3 Alkia.

In less than a quarter of an hour I had realised
3/1 profit, from your advertising. Very interesting
that, isn't it? I am always interested in results
from advertising, being a keen believer in printers
ink.

Yours very truly,

Charles Robertson

Messrs. Saltrates Ltd.,
London, W.1.

Dear Sirs:-

April 24th.

I was reading through reproduction of Mr. Robertson's
(St Andrews) letter on page twelve of to-day's date Chemist
& Druggist and I think this afternoon I surpassed his feat,
in my shop as above. Four customers following, purchasing
Saltrates preparations as follows.

2/- Reudel Bath Saltrates	} All in five minutes or so
3/3 Alkia Saltrates	
2/- Reudel Bath Saltrates	

Later on in the day I was asked for another 2/- size Reudel,
but in this case the customer would not take the 3/3 size,
so I missed the sale, having just sold the last small package.
I am quite prepared to admit that this is a coincidence that
does not often occur, and probably was in part due to other
brother Pharmacists being "sold out". But your preparations
are always good sellers with me.

I thought the foregoing would interest you, and it
is absolutely authentic, as my Lady Assistant can witness. If
the "Tale wants adorning" and I may "point a moral", I would
say never load up your shelves with goods that stick there,
but to borrow Mr. Robertson's "Matty" phrase fill up with
"restless" goods, which are restless to the point of removal
for "Cash Till Food".

With compliments,
Yours faithfully,

A.W. Cornish

NOTE.—The above letters were sent to
us without solicitation of any kind.

Thanks!

We know our lines are
wonderful sellers but—

We like to get letters like these from chemists—
Remarkable Testimony—

MR. CHARLES ROBERTSON, 115, Market St., St. Andrews,
writes that the stock is so restless that he has difficulty in
keeping it on the shelf. He realised 3/1 profit from our
advertising within fifteen minutes.

MR. A. W. CORNISH, 158, Lower Ashley
Road, Bristol, had sales amounting to 10/6
during a period of five minutes and would
have sold more if he had not run out of stock.

We have numerous other similar letters
which will appear in future advertisements.

ALKIA SALTRATES

The best specific for
Rheumatism, Gout, Kidney Troubles, etc.

Price 3/3 P.A.T.A.

REUDEL BATH SALTRATES

Unequalled for the Bath or Foot-bath.

Price 2/- and 3/3 P.A.T.A.

KAL-SEL

The Super Saline.

Price 1/11 P.A.T.A.

BIG SELLERS



DISPLAY MATERIAL OF STRONG SELLING POWER
SENT FREE ON REQUEST

"Here the familiar "Reudel Bath Saltrates" caught the eye. The wonderful hold that this preparation has on the public is well known to every chemist. It is one of the many preparations where the stock never worries the owner. While this may be particularly said of Reudel, the other lines shown such as Alkia Saltrates, Nemolin and Kal-sel have a wonderful popularity, and the confidence of the firm in their goods was shown by the freedom with which samples were being distributed. This all tends to good business."

Extract from "The British and Colonial Pharmacist," Oct 1923.

You can stock
These goods on
**GUARANTEED
SALE TERMS**

Carriage paid in United Kingdom on
orders for 3 dozen, which may be
assorted.

SALTRATES LIMITED, EUSTON BUILDINGS, LONDON, N.W.1.



BRITISH EMPIRE EXHIBITION 1924

IN order to secure the best advantage from representation at this important Exhibition the attention and interest of Overseas and other prospective buyers should be secured beforehand.

In connection with the drug, chemical, perfumery, toilet article, druggists' sundries, and allied trades, an opportunity for doing so effectively will be afforded by THE CHEMIST & DRUGGIST of April 12.

In that issue a section specially devoted to preliminary announcements of exhibitors will be printed on tinted paper with coloured ink, making an artistic combination.

All firms interested can secure full particulars regarding charges for space from—

The Publisher
The Chemist and Druggist
42 Cannon St.
London, E.C. 4

Telegrams :
"Chemicus
Cannon,
London."

Telephones :
Central
3617
(3 lines)

MANCHESTER
49 County Buildings
:: 4 Cannon Street ::

Branch Offices :
GLASGOW
19 Waterloo Street

SHEFFIELD
54 Foster's Buildings
:: High Street ::

Relieves Rheumatism

Musterole relaxes stiff joints and drives out pain. A clean, white ointment made with oil of mustard usually brings instant relief. It does all the good work of a mustard plaster, without its use. Doctors and nurses recommend its use. Use Musterole for cough blisters, pneumonia, and to prevent pneumonia. Use Musterole on the back and on the chest.

Guard Against "Flu"

Influenza and pneumonia usually start with a cold. The moment you get those warning aches, rub on Musterole. A clean, white ointment, Musterole really is) as effectively as the old-fashioned mustard plaster, but without its use. Musterole for sore throat, relieves congestion, cold on the chest, congestion and sore muscles. Use Musterole on the chest and on the back.

Don't Neglect a Cold

Mothers, don't let colds settle. At the first cough or sneeze, rub Musterole on the throat and chest. Musterole is a pure, white ointment made with oil of mustard. It draws out congestion, relieves soreness, does all the work of mustard plaster, without its use. Musterole in a good old-fashioned mustard plaster in a gentler way, without the blister. Keep a jar handy. It may prevent pneumonia in your home. BETTER THAN A MUSTARD PLASTER.

When Children Cough

When you hear that warning croupy cough, rub Musterole over the child's chest. A clean, white ointment made with oil of mustard, Musterole quickly restores the congestion. It has all the virtues of the mustard plaster, without its use. Musterole for colds (it often prevents pneumonia), sore throat, inflammation, and congestion. Use Musterole on the chest and on the back.

For all these Ailments—Musterole

For Raw, Sore Throat

At the first sign of a sore throat, rub on Musterole. It goes right to the spot with a gentle tingle, loosens congestion, draws out the soreness. A clean, white ointment made with oil of mustard, Musterole has all the strength of the old-fashioned mustard plaster, without its use. Use Musterole for colds on the chest (it often prevents pneumonia), congestion, neuralgia and rheumatism. BETTER THAN A MUSTARD PLASTER.



The public know Musterole; they know the ailments which it pleasantly and speedily relieves. These Musterole advertisements bear this knowledge throughout the country.

But do your public know that you sell this ointment of uses?

Make sure; tell them—by Musterole showcards—one in your window, one on your counter. They guide profitable Musterole business your way.

Musterole showcards cost you nothing; they earn you much. We invite you to write for them.

THOS. CHRISTY & CO.,
4-12, Old Swan Lane, London, E.C.4

MILLER'S

Banishes Chilblains

When toes, fingers or ear tips burn and itch, gently massage them with Musterole. Musterole's tingling warmth, derived from oil of mustard, quickly restores circulation. A clean, white ointment, Musterole has all the virtues of the old-fashioned mustard plaster, without its use. Use Musterole for aches and sprains, throats, rheumatism, lumbago, sore throat, coughs and colds. (It often prevents pneumonia.) BETTER THAN A MUSTARD PLASTER.



Relieves Headache

A little Musterole rubbed on forehead and temples will usually drive away headache. A clean, white ointment made with oil of mustard, Musterole is a natural remedy with none of the evil after-effects so often caused by "internal medicine." Use Musterole for neuralgia, pleurisy, congestion, sore throat, sprains and colds on the chest. (It often prevents pneumonia.) BETTER THAN A MUSTARD PLASTER.



For Cold on the Chest

Musterole is easy to apply and it does not blister like the old-fashioned mustard plaster. Musterole is a clean, white ointment made with oil of mustard. Simply massage it gently with the finger tips. You will be delighted to see how quickly it brings relief. Use Musterole for sore throat, congestion, pleurisy, pneumonia, rheumatism and lumbago. (It often prevents pneumonia.) BETTER THAN A MUSTARD PLASTER.



Fine for Lumbago

Musterole drives pain away and brings in its place delicious, soothing comfort. Just rub it in gently. It is a clean, white ointment made with oil of mustard. Use Musterole for colds, coughs, colds, rheumatism, neuralgia, headache, sore throat, chilblains, pains and aches of the back or joints. BETTER THAN A MUSTARD PLASTER.



Fine for Neuralgia

Musterole ensures quick relief from neuralgia. When those sharp pains go shooting through your head, just rub a little of this clean, white ointment on your temples and neck. Musterole is made with oil of mustard, but will not burn or blister like the old-fashioned mustard plaster. Use Musterole for colds, coughs, colds, congestion, pleurisy and rheumatism. BETTER THAN A MUSTARD PLASTER.





Every time you sell a pot of "HAZELINE' SNOW" you provide yourself with an opportunity of selling with it a pot of 'HAZELINE' CREAM. These two well-known toilet products constitute a complete "day and night" beauty outfit, and the sale of two is almost as easy as the sale of one.

"HAZELINE'

(Trade Mark)

SNOW"

'HAZELINE'

(Trade Mark)

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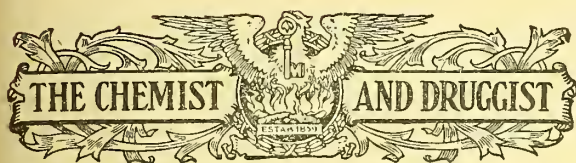
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THE CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official organ of the Pharmaceutical Society of Ireland, the Chemists' and Druggists' Society of Ireland, and of other Chemists' Societies in the Overseas Dominions.

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TERMS FOR ADVERTISING may be obtained on application to the Publisher.

Head Office: 42 CANNON STREET, LONDON, E.C.4

Telegrams: "Chemicus, Cannon, London." Telephone: Central 3617 (3 lines).

Branch Offices: 49 County Buildings, 4 Cannon Street, Manchester. (Telephone: City 52.) Melbourne and Sydney, Australia.

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Ideas

We invite contributions to this Section

Good blotting paper, cut to fit envelopes, printed with a short, crisp message, and enclosed with accounts or letters, will be found a cheap and effective advertising medium. The message goes into the house, and most people keep blotting paper until well used up.—H. E. K. (27/2).

Windows and advertising space should be changed fortnightly (weekly if possible), made seasonable, and should agree. It is wasteful to advertise health salts and make a big show of cameras. Take advantage of local events, and three or four times a year run a children's week. Make windows and advertisements appeal to the youngsters. It is surprising what an impetus children can give to a chemist's business.—H. E. K. (5/3).

English and Welsh News

The Editor would be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

Birmingham

Mr. Wood, of the dispensing department of the Queen's Hospital, has completed his medical studies, and is about to resign his charge at the hospital.

The City Council has declined to recommend the Corporation to participate in the scheme of a Birmingham week at the British Empire Exhibition.

The increase in Birmingham's death rate, higher recently than for several years, is due to influenza, which has caused thirty-seven deaths in one week.

Among those present at the Mess dinner of the R.A.M.C., T.A., Birmingham, on February 29, was Captain E. C. Bennison, Ph.C. (T. Chase & Co., chemists, Broad Street).

There was a large attendance, which included several pharmacists, at the meeting of the University of Birmingham's Chemical Society, on March 4, of the occasion of a lecture, entitled "Atomic Weights and Isotopes," by Dr. F. W. Aston.

Liverpool

The death is announced of Mr. A. J. Boyle, who had been superintendent of the South-West Lancashire Pricing Bureau since its inception in 1916.

Dr. Charles Symes, who was mentioned at the Liverpool Chemists' Association dinner (see p. 349), is in good health and makes calls in the day time, despite the low temperature.

The young lady working for the Pharmaceutical Society, from the Manchester centre, who is visiting the pharmacies to inspect certificates, has created a very pleasant impression in Liverpool.

Mr. Charles Lamb, of the Cheshire Insurance Committee, has been appointed chairman of the Cheshire and South-West Lancashire Pricing Committee, and has been placed on the Commission of the Peace for the borough of Crewe.

In an interview with a representative of the "Liverpool Daily Post," Mr. Henry Peet, J.P., who has been a certifying magistrate in lunacy for nearly thirty years, expressed the opinion that the administration of the Lunacy Act, rather than the measurer itself, was frequently at fault.

Manchester

Influenza is increasing in Manchester and the district. Sleepy sickness, too, has become rather prevalent locally; since the outbreak commenced in January five deaths have been announced.

The heavy fall of snow during the week-end was the means of a big increase in the sale of photographic films and plates. "D. and P." work has also received a much-needed fillip.

Manchester University students held their annual frolic on Shrove Tuesday, and raised money for the local hospitals by means of collecting boxes. The Right Hon. Sir Jalap Cascara, P.I.L.L., was head of one of the many effective tableaux in the procession.

Sheffield

Mr. H. G. Williams, The Moor, is making a good recovery from his recent accident.

Many drugs, though not poisons, are obtainable from several establishments which keep open late at night, ostensibly for another purpose.

Local chemists continue to receive requests for cocaine eye-drops from factory owners who have purchased their first-aid cases from unqualified competitors.

Poisonous preparations are still being supplied in improper bottles by certain vendors. In a recent ammonia poisoning case it was impossible to trace where the liquid had been purchased.

Miscellaneous

POISONING.—At an inquest held at Llanelli recently, on the body of Mr. George Ligertwood, M.B., it was stated that on visiting another medical man professionally, on February 18, Dr. Ligertwood picked up a measure in the surgery, poured into it a solution containing morphine and drank it. He died on the following day. A verdict in accordance with the evidence was given.

LONDON CHEMISTS' GOLFING SOCIETY.—The secretary, Mr. D. J. Parry, 71 Newman Street, London, W.1, appeals for fresh members of the London Chemists' Golfing Society. The membership is now 142 and the subscription is 7s. 6d. per annum, entitling members to take part in all competitions. The annual dinner, concert and dance is to take place at the Wharnccliffe Rooms, Great Central Hotel, Marylebone Road, N.W., on March 20.

ANIMAL MEDICINE MAKERS' ASSOCIATION.—The annual meeting of the Animal Medicine Makers' and Allied Traders' Association was held recently in London. Mr. Lawrence C. Tipper (B. C. Tipper & Son, Birmingham) was re-elected chairman for the ensuing year. A resolution was passed approving the steps taken to oppose suggested Home Office Regulations in connection with "dangerous" drugs and the proposed Therapeutic Substances Bill so far as they would affect animal medicines. Adverse comment was made on the action of the Home Office with regard to first-aid cabinets.

IN THE COURTS.—At Blackpool, on February 29, Frank Rothery (30) and John E. Broadbent (33), stated to belong to Halifax, were charged on remand with having obtained goods by false pretences. It was stated that the accused, after duping one firm by telephoning as representatives of a large hotel in town, adopted the same method with Boots, Ltd. Mr. Ashton, the manager of the shop, sent an assistant to follow the men and to give them into custody. Mr. Ashton was thanked by the Bench and the police superintendent for his action, and each of the accused was sentenced to four months' imprisonment.

EMBEZZLEMENT CHARGE.—At Barry (Glam.), on February 29, Charles Herman Pretty was charged on remand with embezzling money, the property of his employers, W. A. Wharram, Ltd., manufacturing chemists, Leeds. The prosecuting solicitor said that the defendant had been employed by Messrs. Wharram as their South Wales representative since 1920, and the charges were in respect of three medical practitioners' cheques alleged to have been paid to him, and not made over to his employers. Mr. T. H. Moody, secretary and a director of the company, gave formal evidence. The defendant, who pleaded "Not guilty," was committed for trial; bail was allowed.

ATTEMPTED-POISONING CHARGE.—At Portsmouth Police Court on March 3, Beatrice M. Newman (16) was committed for trial on a charge of administering poison to her mother (*C. & D.*, February 23, p. 254). Mr. Samuel Tobias, a dispenser to Mr. Donaldson, chemist, Queen Street, deposed to making liniment for Mrs. Newman from belladonna, aconite and chloroform in equal parts, but he did not put any of these in her medicine. The liniment was put into a blue bottle and clearly labelled "Poison." Mr. R. P. Page, F.I.C., the Portsmouth public analyst, said that he had analysed the contents of the medicine bottle, and was of the opinion that rather more than 1½ oz. of the liniment had been added to the medicine.

FIRES.—The following outbreaks of fire have been recorded since our last report:—There was an outbreak on February 29 at Phoenix Works, London, S.E., the premises of A. C. Young & Co., manufacturing chemists, caused by spontaneous ignition. The damage was slight, and was confined to the ground floor.—A small outbreak of fire, in which damage was caused to a van, occurred at the premises of Adcocks, Ltd., disinfectant manufacturers, Drayton Park, London, N.5, on March 1.—A fire broke out recently on premises belonging to Boots, Ltd., Nottingham, and used as a garage. An electrical defect in one of the motors is believed to have been responsible for the outbreak, which was soon extinguished and caused little damage.

Scottish News

Fires

An outbreak of fire, which caused considerable damage, occurred, on March 2, in the building occupied by Mr. W. Wilson, Beaulay.

A fire broke out on March 3 at the works of the Cartvale Chemical Co., Ltd., Paisley. The damage is believed to be severe.

A fire which broke out in Ballater, on March 3, caused extensive damage, and, spreading rapidly, involved the premises occupied by Mr. W. W. Tytler, chemist and druggist, whose stock and furniture were totally destroyed. The cause of the outbreak is unknown.

Brevities

Mr. C. Pickles, chemist and druggist, has been elected President of the Dalry (Ayrshire) Bowling Club.

Among a number of Scottish chemists who are in ill health at the present time is Mr. Hunt, chemist and druggist (J. Hardie & Son, chemists), Dundee, who has not been well for some time and has now been ordered to keep his bed.

In Glasgow Sheriff Court, on February 29, A. Strizauchas was fined £60, or six months' imprisonment, for preparing and selling methylated spirit as a beverage. It was stated that defendant had treated himself for rheumatism with an embrocation, which, prior to adding camphor, made a palatable and potent drink.

Aberdeen and District Pharmacists' Golf Club held their annual meeting on February 28, Mr. D. Ross (William Paterson & Sons), the captain, presiding over a good attendance of members. The secretary's report showed a membership of fifty-five and that all competitions had good entries. The treasurer reported a balance of £12. The match for the Cartwright trophy, between Dundee and Aberdeen, will take place on the Scotsraig course, Fifeshire, early in May. Other outings will be held at Aboyne, Banchory, and Cruden Bay, while the opening day will be at Murcar. The wholesale and retail match is to be an annual fixture. Office-bearers were elected as follows:—*Captain*, Mr. D. Ross; *Vice-Captain*, Mr. H. M. Dugan; *Secretary*, Mr. W. G. Mitchell; *Treasurer*, Mr. John Forsyth; *Council*, Messrs. S. Anderson, M. G. Duncan, J. Farquhar, A. Ironside, C. Michie, J. Michie, and M. C. Ross. The captain paid a tribute to the excellent work Mr. J. Farquhar had done for the past seven years as secretary of the Club.

Gazette

Partnerships Dissolved

NEVINS, H. W., and RUSSELL, W. G., 20 Tacket Street, Ipswich, "chemists and druggists," under the style of M. Nevins & W. Russell.

PARTON, F. W., 1 Merton Street, Bury, Lancaster, and DUNLOP, F., 5 Lostock Avenue, Levenshulme, Manchester, chemical and oil merchants, under the style of Benson, Dunlop & Co.

WHITLEY, V. A., and WIGNALL, G., 36 Russell Road, Barnes Green, Blackley, Manchester, oil and produce merchants and manufacturers of extract of annatto.

Bankruptcy Acts

RECEIVING ORDER

BOWSHER, R., The Pharmacy, Amesbury, Wiltshire, chemist.

ADJUDICATIONS

DUNCAN, H. R., 8 East Reach, Taunton, Somerset, chemist.

STANSFIELD, J. L., Boothfold, Waterfoot, Bacup, Lancaster, chemical manufacturer.

RECEIVING ORDER AND ADJUDICATION

NEVINS, H. W. M., 20 Tacket Street, Ipswich, "druggist," under the style of The Market Drug Stores.

Irish News

Galen Masonic Lodge

THE Galen Masonic Lodge 437, Belfast, which is chiefly composed of pharmacists and druggists, has the following officers for 1924:—W.M., Bro. R. Gordon McKinstry; I.P.M., Bro. John Adams; S.W., Bro. Joseph Moffet; J.W., Bro. James Macauley; Treasurer, Bro. John A. Bingham, P.M.; secretary, Hugh Crail, P.M.; chaplain, Bro. T. Mitchell; S.D., Bro. W. E. Wilson; J.D., Bro. W. J. Stevenson; I.G., Bro. Angus Black; S.S., Bro. Wm. Martin; J.S., Bro. D. Henderson; organist, Bro. L. Baldwin. At the Installation Dinner on February 27, R.W. Bro. J. H. Stirling, Provincial Grand Master of the Province of Antrim, was present, also a delegation from the Galen Lodge, Dublin, consisting of Bros. John Smith, Robt. Mellon, J. R. Middleton and Davies. Owing to the dock strike, representatives of the Galen Lodges of Glasgow and London were unable to be present, but these sent fraternal greetings.

Brevities

Mr. Patrick J. Walsh, Ph.C., has opened a pharmacy at 18 Upper Castle Street, Tralee.

Mr. James Maguire, chemist, 76 and 77 Talbot Street, Dublin, has been awarded £21 compensation for goods seized in his shop by armed men.

"Suicide whilst of unsound mind" was the verdict at a recent inquest held at Coolera, Robertstown, on Edward Flood, farmer, who died from strychnine poisoning.

At Limerick Quarter Sessions, recently, Arbuthnot Stoney, who claimed £859 as compensation for damage to the medical dispensary in Thomas Street, Limerick, on July 16, 1922, was awarded £628.

At Cork Quarter Sessions, recently, £22 18s. 6d. compensation was awarded to Harrington, chemists, Patrick Street, Cork, in respect of chemicals taken from the firm's premises by armed men in July and August 1922.

At co. Down Assizes, Downpatrick, on March 1, a young man named Joseph A. V. Frew, who was charged with the larceny of moneys by false pretences during September 1922 from Mr. John M. Poots, Ph.C., Newtownards, and other persons (*C. & D.*, February 23, p. 255), was sentenced to three months' imprisonment.

American Notes

By "The Man from London."

A HAIR-RAISING PHRASE.—Coué, the inventor of the magic formula "Day by day in every way I am getting better," has revisited America. M. Coué claims there have been several cases at Nancy of hair growing by auto-suggestion. He says that if it is too much trouble to repeat the magic words, that the same results can be obtained by having them put upon a phonograph record and hear them regularly.

THE UNITED DRUG Co.'s report for the year ended December 31, 1923, shows a balance of \$4,164,822, after charges and taxes, equivalent (after allowing for all preferred dividends), to \$3.46 a share on the \$35,605,500 outstanding common stock, compared with \$3.231,268, or \$5.77 a share, on the \$35,235,400 common stock outstanding in the preceding year. In remarks to stockholders, President Liggett said: "Sales for the year amounted to \$67,244,000, an increase of slightly over \$6,000,000. Net profits for year \$5,405,124, increased over the preceding year approximately \$900,000. The manufacturing company handled a much larger volume of business on a substantially smaller inventory. There are no bank borrowings, and current accounts payable are approximately \$220,000 less than a year ago, leaving a net working balance of \$20,500,000. We started 1923 without current debt. We opened forty-five new stores. We bought in and cancelled \$619,000 worth of bonds."

French News

(From the "C. & D." Paris Correspondent.)

VOLTAIRE'S REMAINS.—The pedestal of Houdon's statue of Voltaire, now in the vestibule of honour in the Bibliothèque Nationale, contains the heart of the great writer. It was Mitouard, the apothecary of the Rue de Beaune, who carried out the embalming.

M. FUMOZE, the general secretary of the Association of Pharmaceutical Manufacturers, has been nominated a Chevalier of the Legion of Honour. M. Meillère, chief pharmacist of a Paris hospital, and M. Patein, ex-chief pharmacist of the Lariboisière Hospital in Paris, have been awarded the Cross of Officer of the (Luxembourg) Grand Ducal Order of the Oak.

ILLEGAL TRADING BY A DOCTOR.—Dr. Bertray, who recently appeared before the Paris Tenth Correctional Tribunal, had put on the market certain pharmaceutical preparations containing zinc phosphide and certain opium alkaloids, which he prescribed for his clients; however, these preparations could be procured only from two specified pharmacists. The court considered that these pharmacists were simply used to cover transactions really done direct by the doctor. He was accordingly condemned to pay a fine of 5,000 francs for illegal practice of pharmacy and sale of poisons, while the pharmacists were fined 2,000 and 1,000 francs respectively.

THE USE OF SACCHARIN for all except therapeutic purposes was prohibited in France by the law of 1902, and its sale reserved to pharmacists. The sugar famine caused by the war necessitated a relaxation of these restrictions, and the law of 1917 permitted the sale of saccharin by grocers and its use in the preparation of beverages, etc. Some 200,000 kilos have since been used in France, and as its production necessitates the manufacture of potash and chlorine (both only produced in France since the war) on a large scale, the question is being raised as to whether the 1917 law, which expires shortly, should not be renewed. France is compelled to buy abroad about half the sugar she requires, and the present rate of exchange makes the Government anxious to stimulate home industries and to reduce imports to a minimum.

PARIS SOCIETY OF PHARMACY.—At the February meeting Professor Grimbart read a paper on a simple and effective method of detecting urobiline in the duodenal fluid, which he had tested in collaboration with M. Poirot. M. Richard showed samples of white vaseline which were not appreciably discoloured by the prolonged action of concentrated sulphuric acid. MM. Penau and Simonnet read a paper on the physiological standardisation of insulin, while M. Bougault presented a note by M. Cattelain on the Codex tests for gelatin. M. Radais, dean of the Faculty of Pharmacy, read a letter he had received from a manufacturer of pharmaceutical preparations, who pointed out that it was difficult, if not impossible, to prepare an extract of kola containing 10 per cent. of caffeine, in spite of the modifications suggested by the subcommittee for the revision of the Codex.

PROFESSOR RADAIS, the new dean of the Paris Faculty of Pharmacy, is not "a man of inches," a member of the Academy, or a scientist of world-wide fame, and it is only when one gets into private conversation with him that one understands the choice of his colleagues. Methodical and precise in his statements, he holds decided views on the development of the Faculty on the lines of modern scientific progress, coupled with a good-natured and tolerant attitude towards those who do not share his enthusiasm, and refuses to be discouraged by the delays of officialdom or the criticisms of conservatism. He is one of the few professors at the Faculty whose name I never remember seeing in the papers, while his whole-hearted and ready appreciation of such of his colleagues as are upholding the scientific traditions of the Faculty—or are likely to do so, for he has an especial eye to those who represent the future—is pleasant to hear.

Colonial and Foreign News

CZECHO-SLOVAK MERCURY PRODUCTION.—At the Witkowitz iron works steps have been taken to extract mercury from the ores obtained from the Koterbach mines. The mercury is stated to be very pure and is being exported via Trieste.

ILLUSTRATED CATALOGUES FOR BRAZIL.—The Brazilian government has imposed a practically prohibitive duty of 3 milreis per kilogram on illustrated catalogues of all descriptions, and it is reported that large numbers are being returned, owing to the refusal of the addressees to pay this duty. The "Journée Industrielle" (March 5) advises French exporters to send such catalogues by letter post.

TURPENTINE PRODUCTION IN DUTCH INDIES.—The first yield of pure turpentine obtained in the Dutch Indies is reported by the "Sumatra Post" of February 24. It is being produced from the resin yielded by *Pinus Marcusie*, of which there are large forests in the Gajo districts, and investigations are being carried out to establish whether its commercial production can be undertaken on a profitable scale.

GERMAN PATENT AND TRADE-MARK FEES.—The German patent fees have again been increased with a view to approximating the pre-war charges. The new fees, which came into force on March 1, are now based on gold marks. The charge for an application is fixed at 15 marks, and the patent fee for the first three years amounts to 30 marks for each year, then increasing successively until it reaches 1,000 marks in the fifteenth year; in the three following years the annual charge will amount to 1,300, 1,600 and 2,000 marks respectively. The application and registration fee for a trade-mark is 15 marks, the class fee 5 marks, and the charge for renewal 100 marks.

CONTAINERS IN BELGIUM.—Attention has been drawn in these columns (*C. & D.*, I, 1923, p. 340) to the representations made to the Belgium Government by manufacturers of pharmaceutical specialities regarding the application of the Royal Decree of August 21, 1922, requiring that all medicines for internal use shall be supplied only in round or oval bottles, while preparations for external use must be put up in amber-tinted bottles having eight panels of equal size, with the words "Usage Externe—Uitwendig Gebruik" blown into the glass. It is, therefore, important to note that a Royal Decree of February 12 suspends the enforcement of these regulations until October 1, 1925.

BULGARIAN IMPORT PROHIBITIONS.—The Minister of Finance has drawn up a new list of articles the admission into Bulgaria of which is prohibited. At the same time an advisory commission has been appointed to deal with applications for permission to import goods on this list, which may be granted in exceptional cases. Applications for special treatment must be accompanied by a fee of 260 leva. The following articles figure in the list of prohibited imports:—Toilet soaps, rose oil, perfumes of all kinds and all toilet articles, essential oils and aromatic substances, natural or synthetic, perfumed fats and oils, fruit essences, with the exception of the following essential oils: mustard, wintergreen, anise, rosemary, bergamot, cloves, cinnamon, lemon, lavender, pine, peppermint, thyme, eucalyptus, fennel, orange flower, melissa, and cedar; also: methyl salicylate, vanillin and menthol.

ITALIAN STATE QUININE PRICES.—Quinine is a State monopoly in Italy, and the prices of all Government quinine preparations have been raised by a decree enforced on January 2. The following are the new retail prices:—Quinine bisulphate in tablets, plain or sugar-coated, 625 lire per kilo (1.25 lire per tube of ten tablets); quinine hydrochloride and acid hydrochloride, in tablets, plain or sugar-coated, 850 lire per kilo (1.70 lire per tube of ten tablets); solution of acid quinine hydrochloride, with or without addition of guaiaacol for hypodermic use, 1,200 lire per kilo (0.60 and 1.20 lire per ampoule, 0.5 and 1 c.c. respectively); quinine tannate with chocolate in tablets, 750 lire per kilo (3 lire per box of ten). The

charges for supplies to public or private institutions are fixed at (for 1 kilo):—Quinine bisulphate, 575 lire; quinine hydrochloride and acid hydrochloride, 800 lire; solution of acid quinine hydrochloride, 1,100 lire; quinine tannate chocolate tablets, 700 lire

DUTCH PHARMACEUTICAL STATISTICS.—At the end of the past year there were altogether 602 pharmacies in Holland, while 1,114 medical men were empowered to supply medicines to their patients. The growing preponderance of qualified women pharmacists in Holland is apparent from the fact that only 270 male assistants were employed in the 602 businesses, while the other sex numbered no less than 1,308. Of the 56 civil pharmacists established in the Dutch Indies, 7 were women; Surinam possesses 13 and Curaçao 10 civil pharmacies. During the past year 10 candidates, 4 women and 6 men, obtained the diploma of qualified pharmacist, while of 460 women and 111 men who presented themselves for the examination for the certificate of pharmaceutical assistant, 271 women and 59 men were successful. The Dutch Society for the Promotion of Pharmacy numbers 709 members. The pharmaceutical corps of the Dutch home army includes one lieutenant-colonel and eight pharmacists of the first class on active service, and 26 in the reserve. The Navy counts one civil pharmacist and three assistants. In the Dutch East Indies the military pharmacists number 20, in addition to 12 military assistant pharmacists, out of a total colonial personnel of 28 holding officer's rank.

PHARMACEUTICALS AND DRUGS IN HAYTI.—The Canadian Trade Commissioner has been investigating the import requirements of Hayti, and finds that there are about a half-dozen first-class firms in Port-au-Prince which import drug and pharmaceutical supplies and fine chemicals. Beyond Port-au-Prince the trade rests to a great extent in the hands of the general merchants. As a whole, however, Hayti is not a drug-importing country, due in a large measure to the primitive conditions and the inaccessibility of the interior. The coming of the Americans has resulted in considerable increases in imports of standard drugs, proprietary medicines, and general pharmaceuticals, as the forces of occupation have given themselves diligently to the tasks of hygiene and sanitation. With the advent of these forces the large New York drug houses entered the field, and to-day they enjoy a fair volume of trade. However, the introduction of pharmaceuticals of American type is by no means an easy task, due to the fact that Haytian chemists are trained either locally or in France, and naturally express a preference for French articles. In addition, the actual tariff preference creates a considerable differential in favour of French supplies. Were it not for the fact that of the leading pharmaceutical houses only one is French, it would be fairly difficult to interest Haytian chemists in Canadian goods. It should be noted, nevertheless, that in common with other Latin-American countries, the chemists and drug stores are not the only importers of pharmaceutical supplies. Every doctor carries a much larger stock than a Canadian physician would carry, and these doctors' accounts are of considerable value. A Canadian pharmaceutical firm, therefore, should not be content with an offer to the few leading drug-houses, but should also make an effort to get in touch with individual physicians, particularly in the outports of Hayti, where sales to these professional men are often much safer and larger than those to the merchant who stocks a small corner of his establishment with standard remedies. Any Canadian pharmaceutical house considering the Haytian market is advised to communicate with the Canadian Trade Commissioner at Kingston, Jamaica, for confidential information regarding possible openings in Hayti. Supplementary to the pharmaceutical trade, there is a considerable business in perfumery and toilet articles. A very considerable market exists for a wide range of such supplies, but the Francophile leanings of the population, coupled with the tariff advantages, effectively prevent supplies from other nations from competing. One of the large American houses has secured a foothold, but, according to their agent, these difficulties nullified the advantage of handling American lines.

Legal Reports

Changing a Customer's Cheques.—At Marylebone County Court, London, on February 29, Mr. Alban Atkin, chemist and druggist, West End Lane, N.W., sued Mr. L. C. W. Brigstocke, L.S.A., Harvard Court, West Hampstead, and Middlewich, for the sum of £31 19s. 1d. for medicine and drugs supplied. The case had been remitted from the High Court, and both sides were represented by counsel. The defence to the claim was that the plaintiff had been paid £22 10s. on five cheques made payable to his order, while other cheques made payable to "self" and amounting to £10 had been changed for cash. The plaintiff said that cheques had been changed for cash amounting to £32 10s., but he had omitted to indicate that fact when endorsing them. The defendant, after deducting £3 for alleged overcharges, had paid £6 9s. 1d. into court in full settlement. In the witness-box the defendant swore that the plaintiff was always too busy to give him a receipt, and that he asserted that a cheque was as good as a receipt. Nurse Donnelly, Fellowes Road, gave corroborative evidence, stating that she had accompanied the defendant on two occasions to the plaintiff's pharmacy. Mr. E. C. Cripps (Allen & Hanburys, Ltd.), called for the defence, gave evidence on prices. The plaintiff, in reply to his counsel's questions, said that he had never refused a receipt nor had one penny on account. The defendant had never replied to numerous applications, nor mentioned the cheques paid until the writ was served; and the goods had been charged according to prices ruling at the time of sale. His evidence was corroborated by two of his assistants, Mr. H. O. Neal and Mr. H. Over. In summing up, his honour Judge Scully remarked that the evidence of the plaintiff was more trustworthy and better corroborated than that of the defendant. He accordingly gave the plaintiff judgment for the full amount claimed, with taxed costs.

Validity of a Contract Disputed.—In the Chancery Division of the High Court, London, on March 5, Mr. Justice P. O. Lawrence commenced the hearing of an action by the York Glass Co., Ltd., York, against Mr. Thomas Jubb, whose address was not given, for a declaration that letters which passed between the parties on certain dates in the year 1922 constituted a binding agreement for the sale by the company to the defendant of the property, works, and business of the company, specific performance of such agreement, and a declaration of the company's lien on the premises agreed to be sold under the agreement, with interest and the costs of this action. The defence was that at the time of making the alleged contract (which was not admitted) and at all material times the defendant was of unsound mind or incapable of understanding the contract, as the plaintiffs knew. At the hearing the defence was amended, and was that the alleged contract was not binding on the defendant, in that he was, as the plaintiffs knew, or ought to have known, infirm of mind and body and incapable of managing his affairs reasonably and properly, and in that the alleged sale was made at a price greatly in excess of the value of the property, and in that the defendant had no independent advice, and there was no reasonable degree of equality between the contracting parties. Mr. Preston, K.C., and Mr. W. C. Stevens appeared for the plaintiff company; Mr. F. K. Archer, K.C., and Mr. A. F. Clements were for the defendant. Mr. Preston, in opening the case, related the circumstances of various interviews between the defendant and a Mr. Barron, who was negotiating on behalf of the company. The book values of the company's business at August 31, 1922, said counsel, were £118,418; those figures were shown to Mr. Jubb himself, and Mr. Barron said to Mr. Jubb that he ought to get 50 per cent. of that book value, or £59,200. Mr. Jubb offered eventually £54,600, but the company wanted £55,000. Mr. Jubb then offered to "toss" whether the price should be £55,000 or £54,600. Mr. Barron lost, and the price was fixed at £54,600. It was decided to take the evidence for the defence first. That of Dr. Hawkyard, Leeds (taken on commission), was put in, and a Mr. H. Gregg gave an account of negotiations

between the defendant and himself, in 1922, over a partnership. The hearing was adjourned.

New Trial Granted.—In the King's Bench Division of the High Court, London, on February 29, before Justices Lush and Avory, Mr. William Desmond Noble, Well Street, E.1, described as a dentist, made an application in the action Pharmaceutical Society of Great Britain v. Noble for leave to set down an appeal from a judgment of Judge Crawford at the Southend County Court C. & D., February 23, p. 254). Mr. Noble, who appeared in person, explained that the action concerned premises at Southchurch Road, Southend, and was brought against himself and another for an alleged breach of the Pharmacy Act, 1868. A summons was served in respect of the alleged breach on December 17, 1923, returnable for January 10, 1924. Before the summons was returnable he was asked by a clerk employed by the plaintiffs' solicitors if he was prepared to admit that he had used the title of chemist "improperly." Applicant told him that he had nothing to do with the business concerned. He afterwards received a letter saying that the plaintiffs would discontinue the action, and he naturally thought that that was the end of the whole thing. Ten days later he was served with another summons in respect of the same matter, and his wife was joined as a defendant. He was ready to defend that action, when on the Tuesday morning of the week fixed for the hearing of the case he received notice that he would have to attend the High Court in another action with which he was concerned. He immediately asked the plaintiffs' solicitors to let their action stand over, and disclosed evidence he had in answer to their claim. They refused to help him, however, and applicant then wrote to the judge, pointing out his difficulty. Judge Crawford had apparently stated that his Court was as important as the High Court, and decided to open the action. In the result, judgment was entered against him, although he had no opportunity to appear. Mr. Justice Avory: What is the question of law on which you wish to appeal from the County Court judge's decision?—The question of law is that I have never used the title "chemist" at all.—Mr. Justice Avory: That is a question of fact.—Mr. Justice Lush (to applicant): Your complaint is that you have never been able to present your case at all?—That is so. I have never been heard.—Mr. H. Glyn-Jones, for the Pharmaceutical Society, submitted that Mr. Noble had put before their lordships no ground whatever upon which they could come to the conclusion that the trial of the action would have ended in any different way.—Mr. Justice Lush: That is no justification for the man not being heard at all.—Counsel: I think the result of the case would have been the same. Plaintiffs' solicitors clerk was seen on the day before the trial by the defendant, and there was a conversation between them. That clerk gave evidence before the County Court judge before he (the judge) decided whether or not he should proceed with the case. It was after hearing the clerk's evidence that the judge heard the plaintiffs' evidence as to the facts and dealt with the case.—Mr. Justice Avory: What was the alleged conversation that took place, and which induced the County Court judge to proceed in the absence of the defendant?—Mr. Glyn-Jones said that the defendant was asked whether he was represented by a solicitor in the matter, and he replied that he was. He was thereupon told that if his attendance were necessary in the Chancery matter, then the proper course was to instruct his solicitor to apply for an adjournment of the Chancery matter. He waited then several days before coming to his (counsel's) clients, and he said nothing whatever about having applied for an adjournment of the Chancery matter. Those were the facts put before the County Court judge.—Mr. Justice Lush: Did the County Court judge say defendant could be in two places at once? (Laughter.)—Counsel: Defendant was told that if the solicitor appeared in the High Court he himself should come before the County Court judge. He (counsel) drew their lordships' attention to defendant's notice of his intention to apply to the County Court judge for leave to appeal. Defendant said he had a *bona-fide* reason for being absent, in that he was appearing in person the same day in the High Court of Justice and the Shoreditch County Court.

It might well be that the County Court judge, having seen that notice and having heard the application, came to the conclusion that that was not an application which should be granted. The action was for the recovery of £5.—Mr. Justice Lush: He should have an opportunity of his case being properly heard.—Counsel submitted that the County Court judge had an absolute right as to the granting of a new trial, as by the County Court Act leave to appeal was required in certain matters where the amount claimed was under £20, and without the leave to appeal from the County Court judge applicant had no right to be heard, and their lordships had no jurisdiction.—Mr. Justice Lush said there should be power somewhere to enable the case to be heard, and he suggested that it might go before another County Court judge.—Counsel said he would raise no objection to the case being retried before another County Court judge.—Their lordships thereupon ordered a rehearing of the action to take place at the Bloomsbury County Court. The question of the costs of the application was reserved pending the result of the new trial.

Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Tuesday, March 11

Ealing Pharmacists' Association, Town Hall, at 8.30 p.m. John Humphrey on "Remuneration for Insurance Dispensing."
London (South-West) Chemists' Association, Westminster College, Clapham Road, S.W., at 8.30 p.m. Lantern lecture by Mr. H. F. Hutchison, B.A., on "Cathedrals of England."

Wednesday, March 12

Edinburgh Chemists', Assistants' and Apprentices' Association, 36 York Place, at 8 p.m. Dr. D. Grieve on "Disinfectants" and Mr. J. W. Laing on "Plant Products."
Guild of Public Pharmacists, 17 Bloomsbury Square, London, W.C., at 8 p.m. J. Wicliffe Peck on "Some Movements of the Earth and their Application to Everyday Life."
Manchester and Salford Chemists' Assistants' Association, Metro Café, at 7.30 p.m. Annual meeting.
Pharmaceutical Society of Great Britain (Bolton Branch).—Visit to Manchester University. Trains from Bolton at 1.4 p.m. and 1.30 p.m. Meet at University, Oxford Road, at 2.30 p.m.
Portsmouth Pharmacists' Association, County Club, Kent Road, at 2.30 p.m. Pharmaceutical Committee, 3 p.m. R.P.U. meeting. Also at the New Mikado, Elm Grove, at 7 p.m. Whist drive. Tickets (3s. each) from Mr. W. H. Bown, secretary, Entertainment Committee, 50 Victoria Road North.
Retail Pharmacists' Union (Portsmouth Branch), Southsea Club, Kent Road, at 3 p.m. Meeting.
Pharmaceutical Society of Great Britain (Leeds Branch), Guildford Hotel, at 3.30 p.m. Dr. E. Welch on "The Relation of Pharmaceutical Education to Medicine" and Mr. H. N. Linstead on "The Society's Activities as they Affect the Student." Followed by tea and smoking concert.

Thursday, March 13

North London Pharmaceutical Association.—Whist drive and dance.
Pharmaceutical Society of Great Britain (West London Branch), Slater's Restaurant, 192 Oxford Street, W.1, at 7.30 p.m. Supper. Address by Mr. Neathercoat at 8.30; concert at 9.30.
Salford Pharmaceutical Association, 40 The Crescent. Mr. G. J. Blore on "Motoring."

EALING PHARMACISTS' ASSOCIATION.—A fancy dress dance will be held at Montague Rooms, Ealing Broadway, on March 18, from 8 p.m. to 1 a.m. Tickets (7s. 6d. each, including supper) from Mr. Arnold Roberts, Market Place, Acton, W.

FEDERATION OF UCLIFES (LONDON BRANCH).—The annual dinner will be held at the Connaught Rooms, Great Queen Street, on March 20, at 6.30 p.m. Tickets (10s. 6d. each) from G. W. Evans, 239 Hammersmith Road, W.6.

LONDON CHEMISTS' GOLFING SOCIETY.—The annual dinner will be held on March 20 at the Great Central Hotel, Marylebone Road, N.W.1. Secretary, Mr. G. F. Deeth, 40 Cleveland Park Avenue, Walthamstow, E.17.

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN (SOUTH-WEST METROPOLITAN BRANCH).—A dance will be held on March 19 at 7 p.m. Tickets, free to members (4s. 6d. each non-members), from A. T. Borrowman, 17 The Pavement, Clapham, S.W.4.

The Nottingham works of Boots, Ltd., will be closed on June 21, when nearly 5,000 of their employees will be brought by special trains to the British Empire Exhibition at Wembley.

Stock Exchange Prices

£1 Shares unless otherwise stated	Dec. 31, 1923	Jan. 29, 1924	Feb. 29, 1924
	s. d.	s. d.	s. d.
Allen & Hanburys, 7% Prefd. Ord...	21 3	21 3	21 0
Apollinaris and Johannis, Ord. £1 ..	7 6	7 0	7 3
Ash (Claudius), Sons & Co., Ord. ..	14 9	15 0	15 0
Ayrton, Saunders & Co., 7½% Pref.	15 6	15 6	16 3
Bell (John) & Croyden, 10% cum. Pref.	7 0	7 0	7 0
Benger's Food, Ord. ..	38 0	38 0	37 0
Boake (A.), Roberts & Co., 5% Pref. £10	£6	£6	£5½
Boots Pure Drug, Ord. ..	102 6	103 9	110 0
Boots Pure Drug, 7% "A" Prefd. Ord.	23 3	23 3	23 3
Boots Cash Chemists (Southern), 6% "A" Pref. ..	21 9	21 9	21 9
Borax Consol., Defd. Ord. ..	35 6	36 9	38 9
Bovril, 6% Pref. ..	20 6	21 0	21 3
" Ord. ..	23 0	22 0	24 9
" Defd. ..	27 6	29 0	35 3
British Celanese, Ord. ..	7 6	7 0	7 3
" 7½% Pref. ..	10 0	10 0	10 3
British Cyanides, Ord. ..	18 9	16 3	16 3
British Dyestuffs Corp., 7% Pref. ..	12 6	12 6	12 9
" Prefd. Ord. ..	7 9	7 4½	7 0
British Glues and Chemicals, Ord. ..	4 0	4 0	4 0
" 8% Pref. ..	15 0	14 3	13 3
British Oil and Cake Mills, Ord. ..	25 9	23 9	23 9
British Oxygen, Ord. ..	42 6	43 3	45 0
British Photographic Industries, 6% Cum. Pref. ..	5 0	5 0	5 0
Brunner Mond, Ord. ..	37 0	37 9	37 6
" 7½% Pref. ..	26 6	26 3	27 9
Bush (W. J.) & Co., 5% Pref. £5 ..	57 6	60 0	62 6
Cadbury Bros., 6% Pref. ..	23 3	24 0	23 6
Callard, Stewart & Watt, Ord. ..	27 6	27 6	30 0
" 5½% Pref. ..	17 6	17 6	17 6
Crosfield (Joseph) & Sons, 6½% Pref.	19 9	19 3	19 3
De Trey & Co., Ord. ..	16 0	17 6	16 6
Eastman Kodak, Com. (No Nominal Value) ..	\$123	\$129	\$129
" 6% Prefd. £100 ..	\$125	\$130	\$128
Evans Sons Lescher & Webb, Ord. ..	4 3	4 3	4 3
" 5% Pref. ..	7 3	7 3	7 6
Field (J. C. & J.), Ord. ..	15 0	13 9	14 3
" 7% Pref. ..	20 3	19 6	19 0
Gossage (William), 6½% Pref. ..	19 9	19 0	19 6
Grout & Co., Ordinary ..	25 6	22 9	29 6
Idris & Co., "A" Ord. ..	12 6	12 6	12 6
Ilford, Ltd., Ord. ..	20 6	20 0	20 7½
" 6% Pref. ..	19 3	18 3	17 6
Kent (G. B.) & Sons, 5½% Pref. ..	14 3	13 9	13 1½
Knight (John), 25% Prefd. Ord. ..	60 0	59 3	60 0
Lever Bros., Ltd., 7% Pref. ..	20 6	20 7½	20 9
" 8% Pref. ..	20 6	20 3	20 6
" 20% Prefd. Ord. 5s. ..	10 6	10 3	10 6
Liebig's Ext. of Meat, Ord. £5 ..	£14½	£14	£13½
Magadi Soda, Ord. ..	1 6	0 7½	1 0
Mellin's Food, 6% Pref. ..	12 0	12 0	12 0
Mond Nickel Co., Ord. ..	35 0	35 0	36 9
" 7% Cum. Pref. ..	25 6	24 0	23 0
Nathan (Joseph) & Co., 7% Pref. ..	14 0	13 3	12 3
" 8% Prefd. Ord. ..	9 0	8 6	8 0
National Drug and Chem. Co. of Canada, 6% Pref. ..	18 0	19 0	19 3
New Transvaal Chemical Co., 6% Pref.	17 6	17 6	17 3
" 8% Pref. ..	22 6	21 3	21 3
Salt Union, Ord. ..	23 0	22 0	22 3
" Prof. ..	24 0	24 9	25 0
" Sanitas," The Co., 9% Pref. ..	24 3	24 3	25 0
Schweppes, Ltd., Ord. ..	19 6	19 6	19 6
" Defd. ..	15 0	15 3	15 0
Smith (Stephen) & Co., 6% Pref. ..	26 3	25 0	23 9
Southall Bros. & Barclay, Ord. ..	47 6	47 6	49 0
" 5% Pref. ..	19 3	18 9	19 0
Spratt's Patent, Ord. ..	32 6	33 9	35 0
Stevenson & Howell, 6½% Cum. Pref.	17 6	17 6	17 6
United Alkali, Ord. ..	33 0	34 0	32 6
United Glass Bottle Man., 7% Mt. Deb.	£86	£85	£93
Stk. £100 ..	14 9	14 0	13 9
Venesta, Ltd., Ord. ..	16 0	15 3	15 0
" 7% Pref. ..	21 9	22 0	22 6
Vinol, Ltd., 7% Pref. ..	6 6	6 0	6 3
White (A. J.), Ltd., Ord. 10s. ..	13 9	13 0	14 0
White (R.), & Sons, 6% Pref. ..	5 6	5 0	5 0
" Prefd. Ord. 10s. ..	18 9	19 0	20 0
Wright, Layman & Umney, 6% Pref.			

New Companies and Company News

P.C. means Private Company and **R.O.** Registered Office

STANDARD DIELECTRICS, LTD. (P.C.).—Capital £100. Objects: To carry on the business of patent-medicine manufacturers and vendors, chemists, druggists, chemical manufacturers, etc. Secretary: T. G. Smith, 6A Tudor Street, London, E.C.

HERTZ "I.D." FLUID, LTD. (P.C.).—Capital £500. Objects: To adopt an agreement with Jacob Hertz, and to carry on business of chemists, druggists, drysalts, oil and colour men, etc. The directors are: Jacob Hertz and Ernest S. Hertz. R.O.: 9 Mincing Lane, London, E.C.

HARLANDS, LTD. (P.C.).—Capital £2,000. Objects: To carry on the business of chemists, druggists, drysalts, manufacturers and importers of and dealers in pharmaceutical, medicinal, chemical, industrial and other preparations, etc. The directors are: A. H. Montesole and C. Turner. R.O.: 100-104 Moorgate Station Chambers, London, E.C.

F. G. TOMLINSON (PHARMACY), LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of chemists, druggists, wine and spirit merchants, drysalts, oil and colourmen, importers and manufacturers of and dealers in pharmaceutical, medicinal, chemical, industrial and other preparations, etc. The directors are:—F. G. Tomlinson and B. A. Tomlinson. R.O.: 271 Manchester Road, Hollinwood, near Oldham.

BLAIR PATENTS CO., LTD. (P.C.).—Capital £1,600. Objects: To adopt an agreement with T. Phillips for the acquisition of the business carried on by him at Mill Lane, Woodford Green, as G. Blair & Co., and to carry on the business of manufacturers, merchants, patentees, druggists, chemists, etc. The directors are: T. Phillips, G. T. Phillips, and F. E. Tozer, M.P.S. R.O.: The Square, Mill Lane, Woodford Green.

A. LL. WILLIAMS, LTD. (P.C.).—Capital £1,500. Objects: To take over the business of a chemist and wine and spirit merchant, formerly carried on by the late A. Ll. Williams at 47 Bush Street and Commercial Row, Pembroke Dock, and to carry on the same and the business of photographic dealers, opticians, drysalts, oil and colour men, etc. The directors are: Mrs. E. Williams, Commercial Row, Pembroke Dock; and D. T. G. Jenkins, Solicitor; R. D. Lowless, Town Clerk's Office, Pembroke.

WANSEY MANUFACTURING CO., LTD. (P.C.).—Capital £100. Objects: To carry on the business of manufacturers of and dealers in washing, purifying, cleansing and polishing powders, compositions, tablets and liquids, disinfecting and scouring fluids, powders, compounds, dog and other soaps, sheep-dips, cattle oils, embrocations and other veterinary preparations, etc. The directors are: A. D. Sanderson and R. F. Pellatt. R.O.: 618 Old Ford Road, London, E.1.

HAMILTON WELLS ELECTRO MEDICAL INSTITUTE, LTD. (P.C.).—Capital £3,250. Objects: To take over the business of the "Hamilton Wells Electro Medical Institute," carried on by S. A. Westrop, B.Sc., at 67 Church Road, Richmond, Surrey, 248 Corporation Street, Birmingham, 333 Oxford Street, Manchester, 16 New Street, Leicester, 29 Church Street, Sheffield, and 75 Park Street, Bristol. The directors are: S. A. Westrop, B.Sc., and H. D. Brown. R.O.: Walmer Buildings, 248 Corporation Street, Birmingham.

HYDE SYPHONIC METERS, LTD. (P.C.).—Capital £2,000. Objects: To acquire, exploit and develop the invention and improvements in and relating to liquid-measuring apparatus as specified in British Patent Application No. 29,207/22, to adopt an agreement with E. R. N. Hyde, and to carry on the business of manufacturers of, agents for and dealers in meters of all kinds, machinery, engineering, scientific, surgical and other apparatus, boxes, bottles, jars, and any other kind of containers, etc. E. R. N. Hyde, 8 Mandeville Place, London, W.1, is a director.

BURT BOULTON & HAYWOOD, LTD., have declared an interim dividend of 4 per cent., free of tax.

SPRATT'S PATENT, LTD., recommend a final dividend of 1s. 6d. per share, less tax, on ordinary shares in respect of 1923.

JOHN OAKLEY & SONS, LTD.—The net profits for 1923, including £2,821 brought forward, were £44,482. The board recommends a final dividend of 7½ per cent., less tax, on ordinary shares, making 10 per cent. for year, transferring £10,000 to reserve, and carrying forward £3,482.

GEORGE YOUNG (CHEMISTS), LTD.—At a meeting held in London on February 21, it was resolved that this company be wound up voluntarily. Mr. B. Hennell, 165-167 Moorgate, E.C.2, was appointed liquidator, and a meeting of creditors will be held at the above address on March 11.

MAGADI SODA CO., LTD.—The creditors were called together on February 29, at Winchester House, Old Broad Street, London, E.C. The chair was occupied by Mr. A. W. Tait, Basildon House, Moorgate, E.C. The shareholders had previously passed a resolution to the effect that the concern could not, by reason of its liabilities, continue its business, and that it was advisable to wind up voluntarily. No statement of affairs was presented, but the chairman read figures from a balance-sheet from which it appeared that the total liabilities were £2,316,244, the principal items being ordinary shares issued, £1,250,042; deferred shares, £62,500; 6 per cent. convertible debentures, £499,950; sundry creditors, £49,837; loans from bank, £192,121; acceptances, £70,450; and depreciation reserve, £183,342. On the other side of the balance-sheet there was a debit on the profit and loss account as at November 30 last of £693,317, and the assets consisted of: African concessions and leases at Magadi, £53,453; trade-marks, £195; furniture, £7,840; Magadi railway water supply, port works and works at Magadi, £1,174,108; other works, £300; Calcutta works, £82,727; sundry stores in Africa and India, £55,730; stock of soda and other materials on hand, £57,182; sundry debtors, £16,200; cash in hand, £20,640; expenses of issue, £114,000; preliminary expenses, £17,300; and debenture issue expenses, £8,888. Mr. Tait pointed out that the assets had been put down at their book values. With regard to the loans from the bank amounting to £192,000, the bank held second debentures for £200,000. Negotiations had been proceeding for some considerable time with the Colonial Office with regard to the renewal of the concession of the Magadi Lake, and the use of the railway. The agreements appeared to have been technically broken owing to the company's default. The Colonial Office had intimated that if the company was re-organised on lines which met with their approval they would be prepared to renew the lease and to make a reduction in the royalties and rates of freightage for about five years, subsequently fixing the rate to the advantage of the company. Mr. Pennell stated that he strongly opposed the passing of any resolution confirming the appointment of the present liquidator. He added that he was a debenture holder for between £6,000 and £7,000. Reference had been made to the submission of a scheme to the parties interested, but he did not think that the scheme was an equitable one. It was proposed that Mr. Tait should become a director in the new company which was to be formed to take over the business. The scheme was not one that could be approved of, and he proposed to take steps by applying to the Court. Whatever might be thought of such things in the City of London, he had his own views of what would be thought by the Court. The suggestion that the leases and concession might be forfeited was only a bogey. The Colonial Office was amenable to reason. The speaker went on to declare that there should be ample to pay all the creditors in full, and the Lake was worth millions. He also declared that negotiations had been taking place with Brunner, Mond & Co., Ltd. No resolution was passed by the creditors, and therefore the voluntary liquidation will be continued, with Mr. Tait as liquidator.

South African Medical, Dental and Pharmacy Bill

DRUGLESS HEALERS

THIS Bill was again before the Union House of Assembly, Cape Town, on February 15, when the Order was for the House to go into committee on the Bill. However, Mr. Boydell (Lab., Durban, Greyville) had a contingent notice of motion on the paper, as follows:—

"That the order for the House to go into Committee on the Medical, Dental and Pharmacy Bill be discharged, and that the Bill be recommitted to a Select Committee for further consideration and report in respect of clause 34, the Committee to have power to take evidence and call for papers."

In moving this, Mr. Boydell explained that the clause would make it an offence for, say, a drugless healer to practise. He was not going to prove that this or that method of healing was right or wrong; but held that certain people who claimed to do healing by certain means should be allowed to give evidence before a Select Committee. The effect of the clause was that only registered medical practitioners should be allowed to practise healing.

EVENING SITTING

On the resumption of business at 8 p.m., Mr. Boydell, continuing his speech, said he would like to appeal to the Minister of Agriculture, who was himself a medical man, to support his motion to have this Bill referred back to Select Committee so that the people who treated the ailing without drugs and without medicine should have an opportunity of stating their case. The medical fraternity would in Select Committee also be able to state their side of the case. When that had been done, the members of this House would be in a better position to judge as to how far the drugless healers of South Africa had established their claim to be allowed to practise. The House had got no evidence on behalf of the drugless healer. During the last twenty years there had been far more up-to-date, rational and scientific methods of healing introduced than medicine. There were thousands and thousands of people in South Africa, and millions in America and other parts of the world, who were being cured of all sorts of ailments through the methods of the drugless healers. He knew there were young South Africans to-day who had left this country and were qualifying in American colleges in this new science for the purpose of coming back to this country and carrying on their profession.

Mr. Robinson (S.A.P., Durban, Central), in seconding the motion, said he did so because there was unquestionably a large section of the community who believed as Mr. Boydell that these men should be allowed to practise as they are allowed to-day. Petitions had been presented on their behalf, and on behalf of the doctors, and it was eminently desirable that both sides of the question should be impartially considered by a committee.

Sir Wm. Macintosh (S.A.P., Port Elizabeth, S.W.) and Mr. J. Henderson (S.A.P., Durban) supported the motion, and hoped the Minister would see his way to accept it.

OPPOSITION

Dr. Visser (Nat., Vrededorp), in opposing the motion, related several anecdotes in support of his argument. He said that in South Africa, according to the accepted medical standard, they did not recognise a man who had only done a certain number of years' work, as in America, but did not complete his training according to professional standards. He emphasised his point by saying that trade unionists did not recognise any but the trained worker. The medical profession was an honourable profession, one worthy of respect, and it was not for the safety of the human race that men should be let loose who had not qualified themselves in the proper manner.

Mr. Alexander (Dem., Ind., Cape Town, Castle) also supported the motion. The unlicensed practitioners, he said, were not interfering with the doctors, and he expressed the hope that later on the doctors would, as

they had done in America, adopt methods of healing which were practised by these men, and would regard them as a distinct advance in science. If the matter were referred to a Committee it would save much valuable time, and prevent prolonged discussion on the floor of the House.

NOT A CONTEST

Mr. Duncan said that he did not desire to go into the merits or demerits of the case as between the medical profession and these various unlicensed sects. It was not a question of a contest between the medical profession and what was known as drugless curers. He admitted there were cases where cures had been effected by a series of methods and by people with no method at all. He remembered as a boy a man going around with a van and various appliances who cured all who came upon the platform.

An Hon. Member: Don't forget the band!

Mr. Duncan (continuing) said the question the House had to consider was, is it prepared to allow people to set up professionally as healers of human disease and make their living thereby, coming into confidential and intimate relations with people without any guarantee of qualification or character?

An Hon. Member: People would not go to them if there was anything wrong.

Mr. Duncan: My point is this, that the State cannot afford to allow anyone to come along and practise on human beings without any guarantee as to qualifications or conduct. In view of the strong support that the hon. member (Mr. Boydell) has in this House, I am going to accept the motion. The hon. member has stated, and it is quite true, they did not have an opportunity of putting their case before the Select Committee that sat last year, although it sat for the whole session practically.

The motion was accordingly agreed to.

German Santonin Claims

"DIE CHEMISCHE INDUSTRIE," the journal of the German chemical industry, in its issue of March 1 states that it has received the following communication:—"In the English journal, THE CHEMIST AND DRUGGIST, articles have recently appeared dealing with the manufacture of santonin in Turkestan (particularly in No. 2299, of February 16), which, on the whole, give a correct account. However, for very obvious reasons, no mention whatsoever is made of the part played by Germans in the development of this undertaking. Consequently, it appears opportune to supplement the history of the foundation of the factory in Turkestan by the following particulars. The idea of erecting a factory originated in W. Pfaff, a German pharmacist, then working as a chemist in Moscow. In order to obviate the high costs for freight, he proposed the erection of a santonin factory in the district where the wormseed is collected, and succeeded in interesting Ivanoff and Savinkoff (both of whom are mentioned in the above-quoted journal) in his project. Another German pharmacist, Gustav Zebel, owner of the firm of Joh. Diedr. Bieber, in Hamburg, indicated the method of manufacturing santonin, a process which has remained unchallenged to the present day. The factory was planned by Zebel, the apparatus was made by German engineering firms, and Knapp, a German engineer, superintended the actual construction and working of the new plant. Germans also participated largely in developing the commercial side of the undertaking, as up to 1914 the Russians limited their activities to the actual manufacture, while the distribution of the output of santonin was undertaken by certain German firms. Although now an attempt is being made to ignore utterly German participation in developing the manufacture of santonin in Tshimkent, this will not alter the fact that the santonin factory erected in the middle of the steppes, far away from all civilisation, and its working, are a monument to German brains and technical skill, which had formed a profitable alliance with Russian enterprise."

Retail Pharmacists' Union

Hull.—At a meeting of the Hull Branch, held on February 21, Mr. G. A. Mallinson (secretary of the Union) gave an address on *The Need of a Business Organisation for Pharmacists*. A business organisation, Mr. Mallinson said, should be able to settle disputes, protect the trade, and defend the chemist in the event of prosecution; be able to supply the pharmacist with special cash books, etc.; and cover business risks. The R.P.U. was not bound by charter, the speaker said, but only by trade union rules, and what it could do in a business direction was practically unlimited. There was no doubt that, although the R.P.U. had not done all it might have done, its business had been coped with in a very good way. The Union was dependent upon its members, and it was up to pharmacists to see that the R.P.U. dealt with all matters within its province. Throughout the country the R.P.U. had been well supported, and he had no doubt that it would receive all the support possible from Hull. A vote of thanks to Mr. Mallinson was proposed by Mr. Twigg and seconded by Mr. Sellé.

Leamington.—The Warwickshire Branch met on February 14, Mr. Hutton in the chair, when Mr. Clifford Burgis, C.A., gave an address on *Bookkeeping as Applied to Pharmacy*. Mr. Burgis commented favourably on the paper on this subject submitted by the R.P.U., which had been previously read by the secretary. He said that though the income-tax authorities were really responsible for the present agitation for better book-keeping, pharmacists should keep accurate books for their own safety. Badly kept books are worse than no books, and analysis books are most essential where there are branches. Mr. Burgis preferred the impress petty cash system to the drawing cheque to balance system of the R.P.U. On no account, he said, should small sums be paid out of the till. He also explained the importance of keeping a separate account for private income and expenditure. Speaking generally, no one could possibly know his real financial position without keeping proper books, and many occasions had arisen when income-tax payments had been reduced through proper accountancy. In replying to questions, Mr. Burgis said with regard to stocktaking he appreciated the pharmacist's difficulty, and he thought the trouble might be overcome by taking annual stock of the heavier articles and registering a set value for many of the smaller goods which could be revalued at longer intervals. A discussion on the R.P.U. services followed. The next meeting will be held in Leamington on March 6.

Leeds.—A meeting of the North-Eastern Branch, attended by over 200 members, was held at the Metropole Hotel, Leeds, on February 13, to hear addresses by Mr. J. E. French, chairman of the Insurance Committee of the R.P.U. (who presided), and Mr. G. A. Mallinson, the secretary, on the policy followed by the R.P.U. in relation to the new contracts. Mr. Jackson (Sheffield) and Mr. S. N. Pickard, J.P. (Ossett), members of the Executive, also spoke. The negotiations conducted with the Ministry since 1916 were outlined, and the present readiness of the Executive to deal with the Ministry on chemists' behalf explained. A discussion took place, in which discontent with the present terms of payment was expressed, the Hull representatives advocating that at least 6d. should be the fee for dispensing medicines; others spoke of the desirability of grey open-weave bandages being removed from the tariff, as the supplying of these to insured persons instead of white bandages was likely to foster misapprehension that insured persons do not receive the same quality of drugs or dressings as the general public. Dissatisfaction was freely expressed on the inadequate allowance for insulin, vaccines and serums. Replies to questions having been answered by the chairman and Mr. Mallinson, a resolution moved by Mr. A. L. Briggs (West Riding), seconded by Mr. Jackson (Hull), was passed, expressing satisfaction with and confidence in the R.P.U. executive as the proper authority to negotiate terms for Insurance dispensing with the Ministry on behalf of chemists.

Associations' Winter Session

Belfast.—A meeting of the Finance Committee of the Chemists' and Druggists' Society of Ireland was held on February 28, the President (Mr. Fred Storey) in the chair. There were also present Messrs. Samuel Gibson, J.P., W. J. Rankin, S. Sufferin, J. Macauley and J. Moffet (hon. sec.). The finances of the Society were gone into, and some alterations made in the investments. It was also decided to invest the cash in hand.

Dundee.—At a meeting of the Dundee Chemists' Association which was held on February 29, Dr. McCall, B.Sc., Ph.C., of the Technical College, gave a lecture on *Materia Medica*, illustrating his remarks with lantern slides showing the herb gardens of Duncan, Flockhart & Co., and the methods of storing and sorting drugs in London docks and warehouses. Mr. James R. Milne presided.

Glasgow.—On February 21 the Literary and Scientific Section of the Glasgow Pharmacy Club heard an address by Mr. Jas. P. Todd, Ph.C., lecturer in pharmacy and materia medica in the Royal Technical College, on the *British Pharmaceutical Codex*. Mr. H. P. Arthur presided. Mr. Todd gave statistics as to the number of preparations, etc. He was of opinion that there were too many of a particular kind, as in the elixir, etc., acetomorphine. With regard to ung. iodi denigrescens, Mr. Todd thought the Martindale formula with oleic acid was a superior one. Although the Codex is a great advance on its predecessor, there is still room for improvement. A vote of thanks was accorded to the lecturer.

London (N.).—The North London Pharmaceutical Association met on February 26 at the Library, Holloway, the chair being taken by the President (Mr. J. Downing). The object of the meeting was to hear addresses from the Metropolitan candidates for the Executive of the Retail Pharmacists' Union. The first to speak was Mr. A. R. Keith, who outlined the policy he had carried out from the beginning. He stood for progress and activity begotten of independence. He always felt a greater advance was made by members not losing their sense of freedom of action on executive bodies. Mr. J. Milner spoke next on the various activities of the Union, and indicated how its many services could be utilised. Mr. E. A. Atkins, who followed, said that he was proud to be a member of the Union Executive. He pleaded that London did not get the chance it did in the 'old days, because the unity of action in the county had been broken, and until they could get together again in the same old spirit as in the past London would not get all the attention it deserved. Mr. A. R. Melhuish pointed out that there was no vital issue before the electors. He gave several particulars of the Union's action, and felt sure that members would readily support their Executive. Mr. J. Keall, who had spoken after Mr. Atkins, also dealt with general policy, in which he had actively participated. The questions which arose centred largely around the price list and stock cards, but time was much too limited to discuss the matters fully. Mr. Skinner dealt with the general policy, and showed where improvements could be made. Criticism appeared to be abhorrent to the Executive, judging by the letters he received; the official fathoming of the price list would be better to be dropped as quite unworthy of a representative body. He recalled the old days spoken about by Mr. Atkins, and showed how they managed to get things done, not only by unity in the organisation of London but by all of them standing shoulder to shoulder; in those days they believed in each other, and to attack one was to attack all. That was the spirit needed. He said there was no candidate from North London, since the association thought it was better that the five should fight it out between them. He hoped the best men would win. A vote of thanks moved by the President was carried unanimously.

SPURIOUS "DOPE."—A man was convicted in London, on March 1, for offering washing soda as cocaine.

Corner for Students

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist & Druggist,' 42 Cannon St., London, E.C.4."

Report on the February Analytical Exercise

THE powder distributed to students on February 4 contained five parts by weight of ferric phosphate, one part of ferrous phosphate, and four parts of barium oxalate. The approximate (calculated) composition of such a mixture is:—

Fe...	...	...	...	...	18.5
Fe...	...	...	...	...	3.1
Ba	...	...	...	...	22.6
PO ₄	...	...	...	...	36.8
C ₂ O ₄	...	...	...	...	14.5
H ₂ O	...	...	...	...	4.5
					100.0

Traces of an ammonium compound and of sodium were present as impurities.

Samples of the powder were distributed to sixty-two students, and twenty-nine reports were sent in for examination. The presence of iron was reported in all cases, but five students simply mentioned iron without stating whether ferric or ferrous, while, of the remaining twenty-four, nine failed to detect iron as a ferrous compound. As regards the other main constituents, there were no fewer than twenty-one failures to detect the barium, while one student missed the phosphoric and ten the oxalic acid radical. The water eliminated on heating the powder in a dry tube was overlooked in twenty-one cases.

In the hands of many of our correspondents this analysis has proved to be more difficult than was anticipated. The chief difficulty lay in the detection of the barium, which metal was missed by almost three-fourths of those who sent in reports. There were two principal causes for these numerous failures: First, the omission to destroy the oxalate by ignition before precipitating with excess of ammonium hydroxide in presence of ammonium chloride, the consequence of which was that almost the whole of the barium accompanied the ferric phosphate either as phosphate or as oxalate, and was not properly sought for, subsequently, in the precipitate; and, secondly, because of the imperfection of the acetate separation for phosphates in which, even in the presence of a considerable proportion of free acetic acid, the greater part of the barium was carried down as phosphate (the oxalic acid radical having been destroyed) along with the ferric phosphate. In consequence of the variation of methods adopted by different students we found it necessary to repeat the analysis for metals in four ways, in order to ascertain correctly what took place in each. Two phosphate separations were carried out in portions of the powder in which the oxalic acid radical had been destroyed by heating and two in portions in which this had not been done.

One separation in each pair was performed upon an ammonium chloride and hydroxide precipitate which had been filtered off and washed before the separation, while one of each pair was simply conducted by at once adding ammonium acetate and acetic acid to the nearly neutralised hydrochloric-acid solution. The results, which resembled each other fairly closely in all four cases, may be summarised as follows:—

1. The filtrates from the phosphate precipitates were all free from phosphoric acid radical.

2. These filtrates all contained barium in small quantity, but where the oxalic acid radical had not been destroyed, little more than traces were present.

3. The phosphate precipitates all contained barium in quantity, as evidenced by the copious precipitates of barium sulphate obtained when each of them was dissolved in dilute hydrochloric acid and sulphuric acid was added.

The fact that very little barium passed into any of the filtrates accounts in great measure for the few successes in detecting it. It is to be noted, moreover, that little or no indication of barium was obtainable from the flame test

in the preliminary examination, even after the powder had been mixed with concentrated hydrochloric acid.

The analysis was extremely interesting in one respect, however, which may be emphasised here as illustrating how the thoughtful consideration of observed reactions that require explanation may lead a student to devise, as the analysis proceeds, a method which can secure success. One or two students—but, unfortunately, only one or two—noted in the preliminary examination (and made use of the hint obtained) that while the powder dissolved completely in dilute hydrochloric acid, much white residue was left when it was heated with dilute sulphuric acid. This led them to suspect lead, but when lead was proved absent, barium group metals were suggested and specially sought for, with the result that barium was detected.

Only a few words need be written regarding each of several other matters. The test for iron in the ferrous condition, by means of potassium ferricyanide, was too commonly omitted altogether, with consequent failures in the recognition that this was present. The numerous reports of the presence of a chloride were no doubt mostly due to the sparing solubility of silver oxalate in dilute nitric acid, the supposed precipitates of silver chloride being really silver oxalate. Those students who reported the separation of a precipitate—supposed to be lead chloride—when the original hydrochloric-acid solution cooled, had probably dissolved the powder in concentrated, instead of dilute, hydrochloric acid and had obtained a precipitate of barium chloride—a salt which is sparingly soluble in the concentrated acid. The detection of the trace of an ammonium compound was effected by two students only. The quantity present was too small to be recognised by the usual rough method by boiling with sodium hydroxide solution and only testing for ammonia by smelling the escaping steam. Somewhat more delicate treatment was needed.

PRIZES

The First Prize for the best analysis has been awarded to:—

FRED ROBERTS, 8 Merton Street, Nelson.

The Second Prize has been awarded to:—

HAROLD DAVIES, 34 Chadwick Road, Eccles.

First Prize.—Any scientific book that is published at a price not greatly exceeding fifteen shillings may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about seven shillings and sixpence may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher, naming the book or books they select.

MARKS AWARDED FOR ANALYSES

F. Roberts (1st Prize)	94	Syrupus	...	...	69
H. Davies (2nd Prize)	93	Iodi	...	...	68
Hothersall	91	NaCl	...	...	68
Désirée	89	Thiothrix	...	...	64
Minster	89	X	...	...	62
NH ₄	89	Kruschen	...	...	48
Diogenes	86	Cato	...	...	46
M. Glennie	85	R. F. S.	...	...	46
A. Prescott	82	Student	...	...	46
John Roberts	81	Ad lib.	...	...	45
A. R. G.	80	A. J. C.	...	...	45
H. Nelson	80	Etna	...	...	40
G. G.	79	Nepenthe	...	...	40
Terra Nova	78	Pengwerne	...	...	39
Napier	70				

TO CORRESPONDENTS

HOTHERSALL and MANY OTHERS.—In testing a precipitate supposed to be calcium oxalate, potassium permanganate should be used in conjunction with dilute sulphuric rather than with hydrochloric acid, since the latter is not without some reducing action on the permanganate.

MINSTER.—In describing a special test for barium, you mention dissolving some of the original powder in acetic acid and adding potassium chromate. Ferric phosphate does not, however, dissolve in acetic acid, and the potassium chromate must have been added to a turbid mixture.

NH₄.—You describe, presumably by inadvertence, calcium chloride as giving a precipitate of calcium oxalate in a solution acidified with hydrochloric acid.

DIogenes.—It is not easy to understand how you failed to detect the oxalate since your procedure seems to have been correct in every respect. Against this failure your detection of the trace of ammonium may be mentioned with commendation.

M. GLENNIE.—The phosphate precipitate, which you tested for aluminium, iron and manganese only, contained all, or almost all, the barium, this having been precipitated along with the ferric phosphate. See the general remarks above.

A. PRESCOTT.—It was surely by a slip that you describe testing for aluminium by adding acetic acid and lead acetate to the alkaline solution which might have contained this metal.

DOPE.—You should not have omitted to endeavour to ascertain whether the iron was present in the higher or the lower stage of oxidation, or in both states.

A. R. G.—Note that of the three calcium salts, tartrate, citrate, and oxalate, the last only is insoluble in acetic acid.

H. NELSON.—Silver nitrate would not give a yellow precipitate of silver phosphate in a solution acidified with nitric acid. Potassium ferricyanide gives a blue precipitate—not a red colour—with ferrous salts.

G. G.—A solution obtained by dissolving aluminium hydroxide in solution of potassium hydroxide cannot give a precipitate on adding ammonium hydroxide: ammonium chloride in excess should be added.

IODI.—You did not report any examination of the alkaline filtrate which might have contained chromium as chromate or aluminium as aluminate.

NaCl.—Carbon monoxide and dioxide were given off, owing to the decomposition of the oxalate, when the powder was heated with concentrated sulphuric acid.

X.—Tested in the way you describe, the original powder gives an unmistakable reaction for iron in the ferrous state.

KRUSCHEN.—Your statement about certain sulphates being insoluble in any acid needs to be modified. You may possibly be surprised, on trying the experiment, to find how readily even barium sulphate is dissolved by hot concentrated sulphuric acid.

R. F. S.—Separate examination of the aqueous extract and of the acid solution of the residue did not bring any advantage in this analysis, and merely necessitated additional work.

AP LIB.—Note that the mere fusion of an iron group precipitate with fusion mixture would not materially aid in converting chromium hydroxide into a chromate without the addition of an oxidising agent, such as potassium nitrate or chlorate. The presence of chloride in the fusion mixture was probably responsible for the reaction which led you to report a chlorate.

ETNA.—The tests for a chromate which you applied to a solution that, presumably, contained sodium hydroxide and sodium bromide, gave you results which you have not been able to interpret accurately. This analysis was not an easy one, and you should not be discouraged by your failure to find all the constituents, since practice and experience are essential to eventual success. The quantity of the powder supplied was just as usual—fifteen grains—but the powder was unusually bulky for its weight.

PROGRESS OF THE TOURNAMENT

An examination of the totals obtained by those who have submitted reports upon the four analyses to date reveals a very interesting state of matters, the figures of those near the top being identical or exceedingly close in a number of cases. As a stimulus to further effort, we append the scores of twelve students who have obtained more than 335 marks over the four analyses:—

Aspidosperma	... 364	M. Glennie	... 356
NH ₄	... 362	Désirée	... 353
A. Prescott	... 357	Diogenes	... 345
G. G.	... 357	Terra Nova	... 345
Datura Fastuosa	... 357	H. Nelson	... 343
Hothersall	... 356	Minster	... 338

Westminster Wisdom

By the "C. & D." Parliamentary Representative.

D.D.A. INSPECTORS

The Home Office employs two inspectors under the Dangerous Drugs Acts, whose salaries amount to £967.

BROADCASTING LICENCES

The Postmaster-General stated in the House of Commons, on March 3, that on January 31 about 636,000 wireless receiving licences were in force; figures for February are not yet available. The total amount actually paid to the British Broadcasting Company by the Post Office up to date is £71,450; but subject to Parliamentary sanction, and to their obligation to return any ultimate surplus, as provided in their last agreement with the Post Office, the total amount which the company will be entitled to receive in respect of the fees on these licences will be about £348,000.

PHARMACY IN THE ARMY

Mr. G. White asked the Secretary of State for War, on March 4, if he will now arrange for the publication of the Report of the Committee appointed to make recommendations with regard to the employment of pharmacists in the Army, and the provision, distribution, and dispensing of medical and surgical supplies in peace and war?

The Secretary of State for War replied that he is not at present aware of any general desire that this Report should be published; but if he is satisfied that this is the general wish of the House, he will take the question into further consideration.

SPIRIT DUTIES

The Chancellor of the Exchequer, in the House of Commons on March 4, supplied the following information as to the revenue derived from spirits:—

	Home-made spirits	Imported spirits	Total
	£	£	£
Net Revenue for 1921-22	51,278,000	11,541,000	62,819,000
Estimated Revenue for 1922-23	46,700,000	10,300,000	57,000,000
Net Revenue for 1922-23	45,162,000	8,525,000	53,687,000
Estimated Revenue for 1923-24	41,000,000	7,000,000	48,000,000
Approx. net Revenue for 9 months ended December 31, 1923	35,906,000	6,903,000	42,809,000

The figures for 1921-22 are for the United Kingdom. Subsequent figures are for Great Britain and Northern Ireland.

FOOT AND MOUTH DISEASE

The Minister of Agriculture has appointed the following as a committee to initiate, direct and conduct investigations into foot and mouth disease, either in this country or elsewhere, with the view of discovering means whereby the invasions of the disease may be rendered less harmful to agriculture:—Sir Charles Sherrington, G.B.E., President of the Royal Society (chairman); Dr. J. A. Arkwright, of the Lister Institute of Preventive Medicine; Dr. W. Bulloch, F.R.S., Professor of Bacteriology, University of London; Professor J. B. Buxton, Director, Institute for Research in Animal Pathology, Cambridge; Captain S. R. Douglas, F.R.S., Director of the Bacteriology Department, National Institute for Medical Research; S. H. Gaiger, F.R.C.V.S., Animals' Diseases Research Association, Glasgow; Sir John McFadyean, Principal and Professor of Comparative Pathology, Royal Veterinary College; Professor C. J. Martin, F.R.S., Director of the Lister Institute of Preventive Medicine; Professor Robert Muir, F.R.S., Professor of Pathology, University of Glasgow; and Sir Stewart Stockman, Chief Veterinary Officer, Ministry of Agriculture. Mr. H. G. Richardson and Mr. W. G. Wragg will act as secretaries.

Pharmaceutical Botany

XLVII. Umbelliferae—Dropwort

THE *œnanths* or dropworts are typical umbelliferous plants growing near or in water, usually with tuberous roots which may be edible or poisonous, according to species or locality. The hemlock water dropwort (*Enanthe crocata*, Linné) is exceedingly toxic, its poisonous properties being due to a resinoid principle found in the



FIG. 155.—*ENANTHE CROCATA*

juice of the plant (which turns yellow on exposure to air). The plant contains about 3 per cent. of its weight of this dark-coloured viscid resin, which is insoluble in water. Fatalities have occurred through eating the tubers of this plant for parsnips, from which they are easily distinguished (see below). The dried tubers, which are yellowish and spindle-shaped, have been used as a poison for rats and moles.

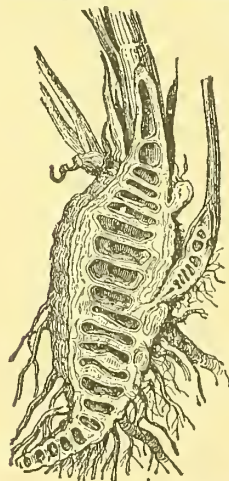


FIG. 156.—Root of *Cicuta virosa* in section, showing hollow compartments

Enanthe crocata is a common weed in England, Ireland and Southern Scotland, growing in wet ditches, marshes, and along streams. It is a stout, branching umbellifer 3 to 5 ft. high, with leaves twice or thrice pinnate, the ultimate wedge-shaped segments being over half an inch long and with three to five deep lobes (Fig. 155). The name of the plant is derived from two Greek words signifying wine flower, from the vinous odours of the inflorescence. The umbels are large and conspicuous, being borne on long terminal stalks (or peduncles), and have some fifteen to twenty primary rays, with only a few bracts at their base to form a general involucre. There are several small linear bracts in each

partial involucre. The outer flowers of the umbel are usually barren, with long stalks and relatively large petals, so that they are attractive and not reproductive in function. The inner fertile flowers have shorter stalks or are even sessile. The petals are inflexed, and thus appear notched. The flowers are succeeded by somewhat cylindrical, closely packed fruits, each of which is surmounted by two long styles with five teeth (representing the calyx) at their bases (Fig. 155). Each mericarp exhibits five broad but not very prominent ridges with four vittæ alternating therewith. The root consists of several white parsnip-like tubers. It is readily distinguished from parsnip because the latter has only a single tuberous root, and its juice does not turn yellow on exposure to air, like that of water dropwort.

The root of the cowbane or water hemlock (*Cicuta virosa*) which occasionally occurs wild, resembles that of *Enanthe crocata* in being highly toxic and having a yellow juice, but it is covered with fibres and has partitions dividing it into several hollow compartments (Fig. 156). The root stock has a sweetish taste which makes it dangerously attractive to children. As its alternative common name indicates, *Cicuta* resembles hemlock (*Conium*) in general appearance.

Recent Patents

Abstracts of specifications of recently-granted patents for inventions. The complete specification (is, each including postage) of British patents can be obtained from the Patent Office, 25 Southampton Buildings, London, W.C.2, on quoting the name of the patentee and the number of the patent.

Dehydrating Alcohol.—Alcohol in vapour form is exposed to the action of various dehydrating agents in a fractionating column. (P. Lorette. 189,453.)

Pill Charging Apparatus.—An apparatus for filling containers with a determined number of pills, and corking the same. (The Original Patents Co., and C. Devlin. 210,699.)

Sodium Compound.—A process for preparing a compound of the composition $\text{Na}_2\text{CO}_3, 3\text{NaHCO}_3$, consisting in heating sodium bicarbonate mixed with sodium carbonate, or caustic soda, at a temperature of 95° – 100° C. (H. E. Cocksedge. 210,628.)

Meat Extract Substitute.—After treatment with water and ammonium carbonate, yeast is maintained for ten hours at a temperature of 45° – 50° C. The mixture is filtered, and the filtrate evaporated to the required consistency. (M. L. Marsan. 190,147.)

GERMANY

Lobeline.—A method of separating α -lobeline from β and γ -lobeline (which do not crystallise), consisting in inoculating an ethereal solution of the crude alkaloids extracted from Lobelia with a crystal of pure α -lobeline (C. H. Boehringer Sohn. D.R.P. 389,816.)

Linseed Oil Substitutes.—Processes for preparing the esters of acids with conjugated double links of the vinylacryl acid type, such as mono- and di-sorbinglycollic ester, di-sorbin 1.3. butylene glycollic ester, for use as substitutes for linseed oil in many of its applications. (Farbenfabriken vorm. Friedr. Bayer & Co. D.R.P. 389,086.)

Solvent for Insoluble Compounds.—A process for preparing solutions of otherwise insoluble organic compounds, such as hydrocarbons, alkaloids, camphor, etc., based on the use of desoxycholic acid, with which such substances form stable additive compounds, from which it is also possible to prepare alkaline salts. (H. Wieland. D.R.P. 388,321.)

Synthetic Adrenalin.—A process for preparing racemic α -dioxiphenylethanomethylamine hydrochloride in a stable, non-hygroscopic and therapeutically active form by carefully adding the base to hydrochloric acid at a temperature of 5° C., and concentrating the resulting solution *in vacuo* prior to crystallisation. (Société Chimique des Usines du Rhône. D.R.P. 388,534.)

Personalities

THE Meldola medal of the Institute of Chemistry was conferred on Mr. C. N. Hinshelwood, B.A., at the annual meeting of the Institute on March 3.

AMONG the chemists elected to the Chemical Society on February 21 were Mr. E. T. Neathercoat, C.B.E., Weybridge, and Mr. E. W. Ewell, Dover.

CAPTAIN CEDRIC H. WHITAKER, a partner in the firm of Whitaker & Co., dye specialists, Kendal, was returned unopposed to Kendal Town Council on February 26.

A CERTIFICATE of naturalisation has been granted to Mr. George Henry MacPherson, chemist and druggist, 3 Windsor Terrace, Maitland Street, Leven, Fifeshire.

MR. DAVID A. EVANS, proprietor of Steele & Marsh, chemists, Milsom Street, Bath, has been elected a Vice-President of the Bath Angling Association, a member of council of the Rotary Club of Bath, and a member of the committee of the local Y.M.C.A.

AMONG the members of the Institute of Ophthalmic Opticians who are seeking re-election to the Council are Messrs. P. J. D. Fielding, Ph.C., F.C.S., Cork; J. C. Kidd, chemist and druggist, Manchester; and T. Leigh Bennett, chemist and druggist, Stockport.

MR. H. S. ABRAHAMSON asks us to state that he has been somewhat seriously ill for the past two or three weeks and unable to attend to correspondence, but is now slowly recovering. His address is c/o Sandersons & Orr Dignams, Basildon House, Moorgate, London.

MR. S. FRIPP, managing director of Rocke, Tompsett & Co. Proprietary, Ltd., left Melbourne on March 4 per P. & O. s.s. "Mooltan," and is due in London about the middle of April. Mr. Fripp will stay in England about three months, this being his first visit for twenty-five years.

MR. W. H. PERKIN, F.R.S., Sc.D., Waynflete Professor of Chemistry in the University of Oxford, has been elected to the board of the British Dyestuffs Corporation, Ltd. Professor Perkin recently became the head of the research department of the corporation, a duty which he will continue to perform in addition to serving as a director.

MR. G. G. HENDERSON, F.R.S., D.Sc., Regius Professor of Chemistry in the University of Glasgow, was installed in office as President of the Institute of Chemistry on March 3. The following were elected Vice-Presidents: Professor E. C. C. Baly, F.R.S., Mr. A. Chaston Chapman, F.R.S., Mr. Andrew More, Dr. T. Slater Price, Professor Arthur Smithells, F.R.S., and Mr. E. W. Voelcker.

MR. CHAS. L. HUISKING (of Chas. L. Huisking, Inc., New York) is again in London following a visit from the Continent, and is returning to New York by the "Olympic" on March 12. He informs us that he is completing arrangements by which his British house will be consolidated with an old-established London firm of drug importers and exporters.

DR. F. J. WALDO, coroner of the City of London and of Southwark, who has become the senior coroner in the Metropolitan area by the recent death of Mr. G. P. Wyatt delivered an interesting *obiter dictum* on rubbishy nostrums in the course of a recent inquest. Dr. Waldo pointed out that quack medicines may cost a half-penny and be sold at anything up to 10s., that they sometimes contain deleterious and poisonous substances, and that their use often leads to neglect in the consulting of a medical practitioner.

THE following appointments have recently been made in representative staff of A. Bourjois et Cie, Ltd.:—Mr. L. Gordon Crook is in charge of company's interests south of the Thames, in Kent, Surrey and Sussex, in place of Mr. C. W. Bonny, who covers several Welsh counties and Gloucestershire, including Bristol and Bath; Mr. J. W. Dansie has been appointed as special representative for the West End of London and the London wholesale trade.

Births

Notices for insertion in this column must be properly authenticated.

FERRIS.—At 13 Oakfield Road, Anerley, London, S.E., recently, the wife of A. E. Ferris, Ph.C., of a daughter (Una).

Marriages

CROCKART—LAMB.—At Brechin Cathedral, on February 27, by the Rev. Walter Coats, D.D., William Crockart, chemist and druggist and optician, Brechin, to Martha Jane, youngest daughter of the late Mr. William Lamb, Montrose.

KEMP—SHERWIN.—At Normacot Parish Church, Stoke-on-Trent, on March 4, Reginald Howard Kemp, Ph.C. (manager, A. S. Price & Co., Ltd., High Street, Brierley Hill, Staffs), to Nellie, only daughter of Mr. G. Sherwin, Normacot, Stoke-on-Trent.

Deaths

BOYD.—At York, recently, Mr. John Boyd, chemist and druggist, dispenser for thirty-five years to the Friendly Societies' Medical Association, Clifford Street, aged sixty-seven.

COLLINS.—At Harbury, on February 16, Mr. Edward de Tedney Collins, chemist and druggist, aged eighty-five.

EVANS.—At Montreal, on February 9, Agnes Reid, beloved wife of Mr. Alfred Bickerton Evans (Evans Sons Lescher & Webb, Ltd.), fourth son of the late Mr. Edward Evans, Bronwylla, Wrexham.

SHIELDS.—On February 24, suddenly, Mr. Richard Thompson Shields, Burslem, father of Mr. E. H. Shields, Ph.C., 50 Salisbury Mansions, London, N.15, aged seventy. For over twenty years Mr. Shields represented J. & J. Taylor & Co., wholesale druggists, Liverpool, in the Midlands, and many pharmacists will sincerely regret his death.

THORNER.—At "Trouville," Southport, on March 1, Mr. William Thornber, chemist and druggist, late of Accrington, aged sixty-nine. Mr. Thornber was apprenticed to Mr. Hogarth, Preston, and gained further experience at Blackburn. He qualified in 1876, and then commenced business on his own account in Accrington, where he eventually opened three branches in addition to the original shop. Four years ago his son-in-law, Mr. A. J. Epley, chemist and druggist, succeeded him. Mr. Thornber is survived by a widow, two sons, and a daughter.

WRIGHTON.—Recently, Mr. Alfred Wrighton, chemist and druggist, at one time in business in High Street, Ilfracombe, where he succeeded Mr. Willoughby Clarke. Mr. Wrighton, who passed the Modified examination in 1877, had experience with Southall Brothers & Barclay, Ltd., Birmingham, before opening on his own account. He retired some years ago.

Wills

DR. JAMES AURIOL ARMITAGE, Netherwood, St. Helens, Hastings, of the Icilma Co., Ltd., left estate of the gross value of £191,150, with net personality £187,278.

MR. HENRY WILLIAM BLACKADAR, chemist and druggist, The Poplars, Hart Plain Avenue, Cowplain, near Waterlooville, Hants, who died on January 6, left estate of the gross value of £7,745 13s. 6d., of which £108 14s. 7d. is net personality.

MR. GEORGE FREDERICK MARSHALL, 31 The Grove, Boltons, South Kensington, S.W., and of Nalderswood Cottage, Leigh, Reigate, late of the Silicated Carbon Philter Co., who died on January 28, left estate of the gross value of £14,418 16s. 9d., with net personality £10,869 3s. 7d.

THE CHEMIST AND DRUGGIST

RETAIL PRICE LIST

based on definite costing principles

THE prices given below are the chief alterations which, in addition to those given in the *C. & D.*, February 9, p. 196, have occurred since the issue of the *C. & D.* Retail Price List in THE CHEMIST AND DRUGGIST, January 5, and enable chemists to revise the List up to March 1. The changes in prices during the month have been few, chiefly downward, and for the most part only affect the buying price. The changes which can be carried into the selling prices are set out below. The index for drugs shows a fall of 3.7 against February, the figure being 160.3. For surgical dressings there is a further advance from 239.6 to 243.0.

	Cost	Selling Price (solid or liquid)				
		1 lb. or as stated	16 oz.	4 oz.	1 oz.	1 dr.
Acid. carbol. cryst. ..	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
Acid. carbol. liq. ..	1 8	2 8	0 10½	0 3	—	—
Ext. cascar. sag. sicc. ..	1 6	2 6	0 9	0 3	—	—
Ext. cascar. sag. liq. ..	14 0	—	6 0	1 9	0 3½	—
Insulin .. 5 c.e.	3 6	6 0	1 9	0 6	—	—
Insulin .. 10 c.e.	5 0	orig.	bot.	6 8	—	—
Macidis pulv. opt. ..	10 0	orig.	bot.	13 4	—	—
Macis opt. ..	6 0	9 0	2 8	0 9	—	—
Ol. menth. Jap. (dementh.)	5 0	7 6	2 3	0 8	—	—
Ol. pulegii exot. ..	22 6	—	9 0	2 6	0 5	—
Pigment. chrysarob. B.P.C. oz.	16 0	—	6 9	1 10	0 4	—
Tr. carminat. ..	0 11	—	—	2 10	0 6	—
Tr. carscaræ ..	11 3	—	4 9	1 4	0 3	—
Ung. conii ..	7 4	—	3 2	0 10½	0 2	—
	5 6	—	2 5	0 9	0 1½	—

Trade-marks Applied for

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1924, p. 289.

(From "The Trade-marks Journal," February 27, 1924.)

- "HALMAO"; for photographic mounts, etc. (39). By C. H. Halliday, 20 North Parade, West Park, Headingley, Leeds. 443,822.
- "BRAND'S"; for meat extracts, invalids' foods, etc. (42). By Brand & Co., Ltd., 72-84 South Lambeth Road, Vauxhall, London, S.W.8. 441,825 (Associated).
- "LAVIEPHOS"; for a phosphoric salts preparation (42). By E. G. Hall, 9 Montague Street, Russell Square, London, W.C.1. 444,209.
- "KERREK"; for balsam oil for the hair (48). By H. Speetjens, 4 Devonport Mews, Paddington, London, W.2. 438,671.
- Facsimile signature "M. L. Dennelle" on circular flower device (flower device disclaimed); for face cream (48). By Marie L. Dennelle, 52 Topsfield Parade, Crouch End, London, N.8. 442,241.
- "KENZ"; for all goods (48). By W. Taggart, 787 Crumlin Road, Ballysillan, Belfast. 443,089 (Associated).
- "MAH JONGG"; for perfumery, etc. (48). By Boots Pure Drug Co., Ltd., 37 Station Street, Nottingham. 443,665.
- "HAIL"; for all goods (48). By F. F. Manufacturing and Trading Co., Ltd., 15 Old Queen Street, London, S.W.1. 444,093.
- "COEUR DE L'ETE"; for perfumery, etc. (48). By Yardley & Co., Ltd., 105 Carpenter's Road, Stratford, London, E.15. 444,103.
- "MISTS OF THE MOON"; for perfumery, etc. (48). By Cussons, Sons & Co., Ltd., Moor Lane, Kersal, Manchester. 444,429.

Trade Notes

THAMES BOARD MILLS, LTD., is the new title of the Thames Paper Co., Ltd., makers of "Fiberite" packing-cases, Purfleet.

LE JADE PERFUME is a new perfume by Roger & Gallet (London), Ltd., 14 Poland Street, London, W.1, which is referred to in the company's advertisement.

TELEPHONE CHANGE.—The telephone number of Francis Newbery & Sons, Ltd., 27 and 28 Charterhouse Square, London, E.C.1, has been changed to "Clerkenwell 7711."

EVANS' INSULIN, made by Evans Sons Lescher & Webb, Ltd., Liverpool, is reduced in price, the same as other brands, to 6s. 8d. per bottle of 5 c.c., and 13s. 4d. for double bottles.

THE QUEEN'S DOLLS' HOUSE, which is to be shown at the British Empire Exhibition at Wembley, will contain among its contents a specially made miniature bottle of Eno's Fruit Salt.

RAIMES & Co., York, send us a copy of their new and revised quarterly prices current of drugs, packed goods and druggists' sundries. The list is well arranged and clearly printed.

MILLO FOOD.—Nestlé's, 6-8 Eastcheap, London, E.C.3, announce that an advertising campaign is to commence referring to Milo food. The trade prices are obtainable from wholesale houses or direct.

GRASSHOPPER OINTMENT.—Albert & Co., 36 North Road, Holloway, London, N.7, ask us to make it clear that the change of package referred to in the *C. & D.* last week is only in regard to Grasshopper ointment.

MR. ALFRED FRANKS, 23 Bartlett's Buildings, Holborn Circus, London, E.C.1, in view of the "warning" published in the *C. & D.*, February 16, p. 232, asks us to state that he has no connection whatever with L. Franks, Cromwell House, High Holborn.

INSULIN BOOKLET.—Burroughs Wellcome & Co., Snow Hill Buildings, London, E.C.1, have issued a new edition of their booklet on Insulin. It is an excellent statement of the origin and uses of this diabetic medicament. A copy of the booklet will be sent upon receipt of a post-card request.

SELL'S TELEGRAPHIC ADDRESSES.—The thirty-ninth issue of Sell's Registered Telegraphic Addresses and classified Trades Directory of Great Britain and Ireland for 1924 has just been published by Business Dictionaries, Ltd., 8 and 9 Johnson's Court, Fleet Street, London, E.C.4, at 45s. The work runs to 2,950 pages, and its magnitude may be gauged from the fact that in addition to containing an alphabetically arranged list of some 300,000 firms in Great Britain and Ireland, there is an alphabetical list of the code words indexed for easy reference, and a Trades List, wherein there are particulars of more than 130,000 firms arranged alphabetically in their trade or profession under 3,500 headings.

Information Department

INFORMATION WANTED

A/53. Antiperiodica (Scun)	C/53. Hargreave's Female Pills
M/292. Bailey's complexion brush	H/43. Jung's arch brace (London supply)
M/252. "Bronks" P.J.F. 201 (21) suppliers	F/202. Parton's Purifying Pills
M/13. Dr. Warner's Arch Support (London supply)	W/53. Tinct. ergotæ sed.
F/13. Eleera Cloth	G/13. Yeast powder (not powdered yeast)

INFORMATION SUPPLIED

Acoine. M/252	Kreseptol. B/33
Aolan. H/202	Lactogen. B/252
Apira (for rheumatism). A/222	Mercurochrome. M/293
Bismolab. S/202	Ozone Papers. S/43
Chlor-San. W/13	Peroxigen tooth-paste. A/13
d'Orsay's perfumes. S/232	Salomon's Citron Soap. S/33
Elfrida Cream. B/212	Tucker's Asthma Cure. D/252
Grandcase Ointment. S/33	Vitoleum. B/252

Observations and Reflections

By Xrayser II.

The Benevolent Fund

continues to lie heavily upon the mind of the Society, and I wish I could say upon its conscience. The Society, we are told, was never so prosperous as now; its membership has risen beyond all expectation; the subscriptions of its members have been half-doubled; its examination fees are enormous; it is producing the "Journal" at a very much less cost than formerly; and yet it allows this Fund to languish, and the only apparent effort made to keep it up is by appeals to private charity. What—if anything—the Society itself contributes to the Fund out of its invested property I do not know, and I doubt whether anybody not responsible for the administration of the Fund does know; but it is not enough to keep it from sinking seriously from year to year. The inadequacy of "special efforts" to prevent this has been shown by the record even of those years in which most was done in this way, and the very fact that such efforts are necessary is proof enough that private charity alone is not a reliable basis for the Fund. My suggestion of March 10, 1923, that a system analogous to that of the Bishop of London's Fund should be adopted called forth no response; my more recent suggestion that a fixed sum should be allocated to the Fund from the income from annual subscriptions to the Society fell, as I foresaw it would, on deaf ears. All that is done is to reiterate appeals for support and send round the hat. Let the Society, as such, set an example of self-denial in the way I suggest, and I should be surprised if direct subscriptions to the Fund did not increase instead of diminish. And with its subscription at £1 11s. 6d. per annum the Society could well afford it. I know for a fact that the increase to this figure has led to the withdrawal of subscriptions to the Fund.

"A Wordy Contest"

with Mr. Corral is as far from my wish as from his; it would be too unequal—a duelling pistol against a machine-gun. But I must say that although he did not in the article in the "Script" "condone inaccurate dispensing," the natural inference to be drawn from it was that where all the conditions are so variable and uncertain the dispenser need not trouble himself to be strictly accurate. In opposition to that view I maintain that he *should* trouble himself to be as accurate as he possibly can be. I am even prepared to argue that in very many cases 5 or 10 per cent. excess or deficiency *does* matter, and that if it didn't we ought nevertheless to do our best to avoid it. As for joining forces with Mr. Corral to get the "spoonful" dose abolished, it is rather a case of his joining forces with me, for I was beforehand with him there; and as for the inconstant body, we are not responsible for that, and the less we think of it the better. But I am being drawn into a contest in spite of myself! Mr. Corral's style is so provocative, and he lays himself out for an attack so generously, that it is difficult for anybody with a stick in his hand to pass him by without having a stroke at him. As the Irishman said, he is "so nice and convenient."

Conium,

as you say in the article accompanying the second pair of your Nature Pictures of Medicinal Plants (which are, if possible, even more beautiful than the first pair) is a plant of great interest. Renowned of old as one of the deadliest of poisons, it was only used externally in mediæval practice, or even down to the latter half of the eighteenth century. It had a place in our first Pharmacopœia under the name "Cicuta," but with a very sinister reputation, though Alleyne says he never heard of its proving deadly, and cites instances, one of a man who took a drachm of the root with excellent effect, and another of a clergyman who "ate a considerable quantity" without harm. It may have been cases like these that led Störck to experiment with it. Brookes says he began with doses of two grains of the leaves twice dai-

gradually increasing them to half a drachm or even a drachm, but he speaks as if the attempt to "bring it into reputation" had failed, at least so far as our own country is concerned. It was not so, however, for Healde, in his translation of the P.L. of 1788, again refers to Störck as having led to its new use. He says, curiously enough, since it had been official with us for a century and a half, that "at last" it had "obtained a place in our Dispensatory." Belladonna did not do that until 1809, and then only its leaves. Hemlock was a plant of the witches; Ben Jonson mentions it as such, and Shakespeare, who mentions it three times, puts into the mouth of his third witch the "creepy" line, "Root of hemlock digged i' the dark." Another of his allusions to it is apparently an echo of the prophet Hosea, when he says, "Judgment springeth up as hemlock in the furrows of the field" (see "Henry V." act v, sc. 1). Keats, however, supplies us with the classical quotation for hemlock in English poetry:—

"My heart aches, and a drowsy numbness pains
My sense, as though of hemlock I had drunk."

Your Reply to C. J. J.

(15/2) is very interesting. "Bechic" is derived from a Greek word for "cough," and was formerly in frequent use. There were both trochisci bechici albi and trochisci bechici nigri in our early pharmacopœias. This is the London formula for the former, which may interest others besides your correspondent:—"Take of white sugar, 1 lb.; white sugar candy, penids, of each, 4 oz.; Florentine orris root, 1 oz.; liquorice, 6 dr.; white starch, 1½ oz.; mucilage of tragacanth made with rose water, q.s." Penids are a particular kind of barley sugar.

I am Amused

to find myself grouped with Mr. Mallinson, Mr. Corral, and others "who wish to dissociate service from remuneration." I don't, but I do wish to dissociate myself, as far as possible at any rate, from those who profess to give Insurance patients the same treatment as private patients, and yet dose them with stock mixtures and other cheap stuff. We are compelled to dispense such when ordered, but I would exercise precisely the same care in this work as in the more remunerative. So, apparently, would your correspondent, "Highlow," and it is therefore difficult to see the point of his letter.

My Note on Rosacœa

is challenged on one or two points by an eminent authority on pharmaceutical botany. He asks whether my statement "that *Rosa centifolia* is called the Damask rose" is due to an oversight. What I actually said was not that it is now, but that it was formerly so called. I gather from Flückiger and Hanbury that De Candolle, "though doubtfully," placed it "under *R. Damascena*." It was, at any rate, so placed in some of our pharmacopœias. Thus Clarke, in his "Conspectus" (1811):—"Rosæ Centifoliæ Petala. L. E. Damask Rose Petals. . . . Rosa Damascena; *Petala*. D."; and again, "*Rosa Damascena Petalum*, old name '*Rosæ Centifoliæ Petala*.'" I am also told that the name *Cynosbatos* applies to the fruit of the dog-rose, not to the plant, the name of which is *Cynorrhodon*. This is true as regards modern usage, but here again old usage was different from ours. In Liddell and Scott both these names are given to the plant, with a cross-reference from the one to the other, and though it is said that the same plant was not meant it is more than a little doubtful what the difference between them was. In any case, *Cynosbaton* is given as the fruit of the *Cynosbatos*, and the latter is said to be "a kind of wild rose." In accordance with this is the usage in our older dispensatories. The Edinburgh Pharmacopœia of 1735 has "*Cynosbatos*" as the name of the plant, the parts used being given as "*Fruct. Spongiolæ*," and Alleyne (1733) under "Wild Rose," has "*Rosa Canina. Cynorrhodon or Cynosbatos-ti*." The old name of the conserve, again, was Cons. Fruct. *Cynosbati*. I ought perhaps to have given both names, but I wanted to make the note as short as possible.

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Editorial Articles

The Wholesaling of Poisons

I

THE wholesale section of the drug trade took a leap into the dark when through the Drug Club it accepted the dictum of the Home Office that "signed orders" are needed when poisons in Part I of the Poisons Schedule are supplied to persons other than chemists and druggists. Expediency in propitiating an all-powerful licencing authority or a desire to clarify an impossible situation may have been the reason for wholesale druggists conforming without adequate protest to new conditions of trade completely at variance with previous practice. Despite counsel's opinion to the contrary, fifty years of custom in the drug trade had established that "entry in a book" under Section 17 of the Pharmacy Act, 1868, related to public transactions over the counter of a retail shop; the very form of Schedule F infers this, as who would ask a physician for what purpose he requires a Part I poison? No one in the early months of 1923 imagined that Section 3 of the Dangerous Drugs and Poisons (Amendment) Act, 1923, could refer to other than "dangerous" drugs. The Home Office ruling that this applies to Part I poisons is a biased interpretation of the foregoing Section 17, which has undoubtedly become law during the past six months.

through wholesalers setting up registers for recording sale of poisons in Part I of the Schedule, thereby enormously increasing both their clerical and legal responsibilities. The latter are sufficiently onerous and technical to make it almost impossible for newcomers to embark upon wholesale trading to doctors and pharmacists. Against this virtual monopoly is to be set the drawback that an unwitting slip may mean excommunication from the drug trade following withdrawal of the authorisation given under the Dangerous Drugs Acts. The Home Office and the Public Prosecutor have shown to retailers great intolerance as regards excusable offences committed in consequence of forged prescriptions, and this augurs unfavourably for wholesalers who commit some breach of their licence conditions. The severity of the legislation to suppress doping is liable to obscure the fact that this nefarious traffic is not conducted by or through druggists either retail or wholesale, and the *penchant* for an example leads to hardship and injustice when restrictive laws are being enforced. The burden of proof is in all cases put upon the person holding or supplying the "dangerous" or poisonous drug, though as regards Part I poisons we cannot imagine the Pharmaceutical Society instituting proceedings against old-established wholesale druggists. Fresh anomalies have been created under both the Pharmacy Acts and the Dangerous Drugs Acts, which require regularising if the wholesale vending of poisons is to be conducted without raising questions as to the legal propriety of such transactions. The whole situation is typical of the muddle in poison law caused by divided responsibilities and diverse objectives. The Home Office set out to regulate the use of habit-forming drugs or dopes (Dangerous Drugs Act, 1920). The Pharmacy Act of 1868 is introduced therein to define retailers authorised to make and vend preparations containing "dangerous" drugs. Section 3 of the Dangerous Drugs and Poisons (Amendment) Act, 1923, drags in Section 17 of the Pharmacy Act, 1868, because this happens to be the only legal reference to a register of poisons. The Home Office issues an interpretation of this section which, if correct, makes it illegal as regards Part I poisons for wholesalers to supply industrial concerns, fill indents from abroad, or even sell to hospitals. Analysts who obtain reagents which are scheduled poisons from dealers in chemical apparatus are breaking the law. Manufacturers supplying wholesalers are asking for "signed orders," but this does not make the supply legal unless the signatory has the necessary qualification—e.g., is a registered chemist and druggist or a medical practitioner. Some wholesalers are accepting signed orders from persons other than these, with whom they have done business in the past, but this, we contend, does not make their action legal. The chaos that exists is shown by the fact that the representatives of some wholesale drug houses are asking for signed orders from chemists keeping open shop or from hospital pharmacists. The following is an example of the circular that has been sent to chemists:—

As your order includes a poison coming within Part I of the Schedule of the Poisons and Pharmacy Act, 1908, it is necessary that it should be signed in full by:—

- (a) the pharmacist (if a registered chemist and druggist) or
- (b) a registered medical officer on your staff.

In order to conform to the Home Office interpretation of the provisions of the above Act, we are required to enter the order in a "Poison Book" kept for that purpose, and also to keep the original signed order for at least two years.

If you will be good enough to have the enclosed form signed and returned at once, it will enable us to comply with the Regulations.

The supply of poisons by wholesalers to chemists as retailers of poisons is especially provided for in the Pharmacy Act, 1868. It is not necessary to inquire how far an *obiter dictum* of the Home Office has the force of law, but recently another attempt has been made to interpret the Pharmacy Acts in a manner which is prejudicial to the public safety. We refer to the sale of cocaine eye-drops to factories. The anomaly to which attention was first called in this journal arose from the granting to unqualified persons of authorisations to sell cocaine eye-drops to factory owners. It was then found that the sale would have been illegal under the Pharmacy Acts, which restricts the sale of cocaine preparations to qualified chemists. Our readers will also have noticed that the Home Office have views upon the keeping of prescription-books, and we gather from correspondents that the police have been instructed to inform chemists that prescriptions containing "dangerous" drugs should be entered in the Dangerous Drugs Act registers instead of a reference to the prescription-book as stated in Regulation 9 (g) of the Dangerous Drugs Act. This point was dealt with in a reply to a correspondent in our issue of February 16 (p. 251). Other examples could be given, but these do not especially concern the subject of this series of articles.

Insurance Dispensing Terms

XX. Prescription Pricing

WHEN the chemist's rate of remuneration has been settled and tariff rules have been agreed upon and adopted, the amount which the chemist receives as actual payment still depends very largely on the actual pricing of his prescriptions. There are sixteen different pricing bureaux in various parts of the country—six in Lancashire, three in London, two in Birmingham, and others in Glasgow, Durham, Wakefield, Cardiff and Bristol. These offices were set up in 1916 by the Insurance Commissioners. For economy in working and simplicity of administration the Insurance Committees in the different areas were arranged geographically in groups, and all the prescriptions dispensed in one group of areas are priced at the local pricing bureau. One or two of the pricing offices deal with the prescriptions for one Committee only, but the majority of them price for a number of Committees, which may vary from six to sixteen. As a rule, the affairs of the bureau are controlled by a joint committee representing the various Insurance Committees who are responsible for the work done at the bureau. There are generally one or two pharmacists on these joint committees, but they are there as members of Insurance Committees. Pharmaceutical Committees are not directly concerned in the management of these pricing offices. A factor to which we have referred more than once in the course of these articles is the exercise of a discretion by pricers in interpreting various prescriptions. We believe, however, that this discretion has been reduced to a minimum, and we do not think it can be altogether abolished until every prescription issued is complete in itself and is written quite legibly. This is a state of perfection yet to be realised, and until it is attained queries are bound to crop up concerning the intention of the prescriber and the probable interpretation placed upon the written word by the dispenser. In this connection we can but reiterate that chemists have this matter very much in their own hands, and that by taking suitable measures they can reduce to a negligible quantity the possibility of under-payments taking place in the preparation of their accounts. No prescription should be allowed to go forward to the pricing office if there is any chance of it being misinterpreted; if there is any ambiguity in

the doctor's method of prescribing, the chemist should make his own interpretation perfectly clear by a note on the form showing exactly what has been dispensed. As a general rule, an incomplete or ambiguous prescription should not be accepted by chemists, but should be returned to the prescriber for correction. It should be given back to the person presenting it at the pharmacy, with an instruction to take it back to the doctor for amendment. If it is desirable, the form can be enclosed in an envelope with an explanation of the reason for its return. We have seen prescriptions in which the quantities of potent preparations ordered have been so large as to raise elementary considerations of safety. Such prescriptions should invariably be returned for adjustment. We have also suggested that this course should be adopted with prescriptions for a quantity of a proprietary preparation less than that supplied by the manufacturers in their smallest original package. It may be repeated that among the particulars which should be precisely stated by the doctor on each prescription he issues are the name, formula or quality of the preparation or appliance, together with the number, size, quantity or dimensions which the patient is intended to receive. Besides these details the form should bear the name of the patient, the signature of the prescriber and the date of issue. To supply these particulars is the doctor's duty, as set out in the Regulations, and if pharmacists would resolutely refuse to handle incomplete and irregular prescriptions, they would save themselves much trouble and possible loss. We have stated a general rule, but in practice there are occasions on which it would be extremely difficult—in fact, it would sometimes be inhuman—not to make the best of an ambiguous prescription, and the chemist is then driven to rely on his own interpretation. If the form in such a case is annotated in order to show exactly what the chemist dispensed, he should receive the correct payment for the prescription, provided that his interpretation is reasonable. And this brings us to a point concerning which Pharmaceutical Committees should take steps to satisfy themselves. It concerns the manner in which ambiguous prescriptions are dealt with at the pricing office. Is every prescription which cannot be priced in a straightforward manner by strict adherence to Tariff rules and principles referred for a decision to a supervising pharmacist who has had practical experience of dispensing in a pharmacy? Pharmaceutical Committees have a definite responsibility in these matters, and should satisfy themselves by actual inquiry as to the manner in which prescriptions are dealt with and by whom decisions are made at their own local pricing office. We are glad to have the assurance from Mr. Herbert Antcliffe, published in our issue of March 1 (p. 321), concerning the pricing of prescriptions in the bureau with which he is personally brought into contact. It is incumbent upon members of Pharmaceutical Committees in other parts of the country to be able, as a result of personal investigation, to reassure their constituents with equal force and conviction. We fear there is a tendency on the part of some Pharmaceutical Committees to consider that, when the contract with the Retail Pharmacists' Union for prescription checking is signed, nothing more remains for the Committee itself to do. This is far from being the case. Prescription checking is not one of the statutory duties of the Pharmaceutical Committee; but the Regulations admit it as one of their rights, and on behalf of their constituents they should exercise it, not merely by examining, by proxy, individual forms and accounts, but by official visits to the pricing office and by inquiry in other directions. So far as we are aware, no attempt has ever been made voluntarily to associate the Pharmaceutical Committees existing within the area of each pricing office for the purpose of

setting up a small subcommittee which should be charged with the duty of making the necessary arrangements for prescription checking and hold a watching brief on behalf of chemists. If such a local pharmaceutical checking committee could be established, by rota if necessary, the advantages of the two systems of prescription checking to which we referred at length in our preceding article (p. 309) could be combined. The R.P.U. could still deal with individual prescriptions in pursuance of a modification of the present arrangements. For reasons of policy, it might be inadvisable for a committee of local men to examine the accounts of individual chemists as a regular thing; but this committee could do locally what the R.P.U. cannot do centrally. By informing itself correctly on all matters connected with prescription pricing, it would be in a position to correct the erroneous impressions which appear at the present time to be so common among the rank and file of Insurance chemists. The appointment of such a committee as we have in mind need cause no feeling of resentment on the part of pricing officials. Its activities would be restricted to any matters connected with the exercising by Pharmaceutical Committees of their right to examine accounts and prescriptions and to make representations thereon to the Insurance Committee.

Increased Arsenic Production

A SOMEWHAT uncertain feeling and decidedly more caution on the part of buyers has characterised the arsenic market during recent weeks, and this has led to a weakening in prices, apart from the fact that there has been tangible indications of an enlarged output in most producing countries. We give below the extreme highest and lowest prices recorded for white Cornish powder during the last three years, and the closing price at the end of each year, from which it will be seen that the price during the three years' period fluctuated between £30 and as much as £75 per ton delivered London:—

	1921	1922	1923
	Ton	Ton	Ton
	£	£	£
Highest	70	70	75
Lowest	35	30	58
Closing price, Dec. 31 ...	44	70	69

The current quotation, which has been largely nominal just lately, has been in the neighbourhood of £67, delivered London, thus denoting a fall of about £2 per ton since the close of the past year, and it is hardly possible to express any opinion whether the sagging tendency of the market can become much accentuated. Views regarding the progress of the American demand for new importations have been somewhat conflicting of late, although it is understood that the movement of supplies to the United States from Europe and Japan has been well maintained, chiefly in fulfilment of the very important contracts that were placed since last autumn. There is no doubt that full preparations were made within the last few months by American importers in order to cope with prospective needs over the spring season for agricultural use or largely in connection with the manufacture of insecticides, but reports have been received that a considerable part of the arrivals in America have not as yet been absorbed owing to the reluctance of users to pay the prices asked by importers. Whatever truth there may be in these reports, it is to be presumed that they have exerted a certain restraining influence on the state of the home market, regardless of the assumption that there are unlimited possibilities of an extension of use in America. It is well to bear in mind, however, that such possibilities hinge on the matter

of cost, as emphasised by the view recently expressed by certain trade experts that in the event of the present price of about 13½c. per lb. being reduced by about 50 to 65 per cent., American consumption might be doubled. Nevertheless, the fact has to be noted that in spite of the comparatively high price seen for some considerable time past, and reaching in America at one time in the past year as high as 16c., it was estimated by an American authority that the country's purchases during last year were as much as 8,000 tons, and that in addition to this the domestic production of arsenic has been increased to about 14,000 short tons. The total American resources for the year thus represented about 22,000 short tons, and would have, it was stated, allowed of only about 5 per cent. of the cotton crop to be treated, and it is suggested that much the same quantity should be required for the current year. This is certainly an interesting prospect for the world producers, whose operations, based on the prospect of the maintenance of high prices at least for an indefinite period, in sharp contrast to pre-war times, should undoubtedly be further stimulated even should prices have to be adjusted to a lower level in order to accelerate the outlet. The development of the industry has been already appreciably enlarged within the last six months or so, this also applying to England. Helped greatly by the rapidly rising price of tin, mining operations in Cornwall have forged ahead rapidly, judging from the individual returns disclosed lately by Cornwall and also Devon properties. Some of these properties, including the East Pool, only started operations recently, and their returns have already made quite a satisfactory showing in the production of arsenic. The official returns of the home production of minerals for the past year will not become available for some time yet, but they should indicate a good recovery in the arsenic output, possibly over 50 per cent. over the returns for 1922, which amounted to less than one thousand tons, compared with about 3,000 tons for the year 1917. The industry in Canada has also made very good progress, as indicated by the returns contained in our issue of November 10 last (p. 655) for the last fiscal year amounting to 2,576 short tons, against 1,491 tons for the previous year. The bulk of the Canadian output has been marketed in the United States in the past year, and there is every prospect of its further extension. In the annual report relating to the mining industry in New South Wales last year allusion is made to the expectation of a marked increase in the output of arsenic, more active mine operations having been carried on, due to the demand for arsenical ores, while several promising outcrops have been located. Owing to the constant expansion of agricultural enterprise in the British Colonies, the need for pushing the exploitation of arsenic resources on a very profitable basis has become more recognised. Although no reliable returns are available from various countries, including the Continent, the total world's production has now doubtless been increased to well over 25,000 tons per annum, and there is certainly no fear of over-production.

Antimicrobium

REPORTS have recently appeared in the daily press of the discovery of a new chemical specific for pulmonary tuberculosis. This compound, designated as "Antimicrobium," has been elaborated by a young Swiss biologist, Dr. Leander Tomarkin, who for some years has been engaged in scientific work in Rome; it is described as sodium amino-*o*-benzoyl-sulphisoamido-hydrocupro-nucleoformate, a grey powder, soluble in water. The first experiments were undertaken in the Santo Spirito Hospital, in

Rome, and it is stated that the mortality was reduced from an average of about 40 to approximately 4 per cent. The preparation is at present being tried in various clinics outside Italy, not only in tuberculosis, but also in other forms of septic infection, apparently with favourable results. Antimicrobium is being supplied by the Swiss Serum and Vaccine Institute in Berne.

Frozen Schick Toxin

THE British Consul-General in Boston has transmitted to the Privy Council a despatch drawing attention to the discovery, announced in the Boston press, that Schick's diphtheria toxin becomes poisonous when frozen. The report, which is being circulated, states that the discovery arose from the poisoning of nineteen students at Concord Academy. Freezing, it is stated, destroys the antitoxin in the serum, and leaves nothing but the toxin to be administered. It is expected that the toxic effects will only last about two weeks, the patients being kept in darkened rooms for three weeks as a precaution. It is announced that the entire shipment of the toxin used is to be destroyed. It may be mentioned that the Schick test for determining susceptibility to diphtheria consists in injecting a small dose of diphtheria toxin; a positive reaction is apparent by the occurrence of a red eruption at the site of injection.

Medicine Stamp Duty

IN view of the approaching Budget, Mr. Alex. Clement, proprietor of Yadil, is calling the attention of the public to the unjust incidence of the medicine-stamp duty. Mr. Clement is publishing in the Press appeals to the Government "on behalf of the unemployed, ex-service men, old-age pensioners, widows, working classes and middle classes." He states that:—

The medicine-stamp duty is a blot upon our civilisation, for it betrays a contempt for the poor and their physical miseries not in keeping with that brotherly love which we owe to them.

Apart from sentimental considerations, it is a fact that the duty was doubled as a war tax, and that it is quite time it was reduced to more reasonable proportions.

German Reparation Levy

By an ordinance issued on March 3, the German Government has repealed its order of November 15, 1923, suspending the refunding of the British Customs receipts for the 26 per cent. Reparation Levy on German imports. The new order also contains the regulations giving effect to the terms of the agreement concluded on February 23 between the British and German Governments (*C. & D.*, March 1, p. 308), according to which the amount of the Reparation Levy was reduced from 26 to 5 per cent. The British Customs receipts covering German goods admitted into Great Britain between November 17, 1923, and February 25, 1924, will be exchanged for gold treasury bonds, maturing every six months, 2 per cent. of the amounts to be refunded being deducted to cover the costs of administration. With regard to the new British Customs receipts issued from February 26 levying 5 per cent. on German imports, these are to be sent in, after April 1, to the Commissary for Reparation Deliveries, and for the present these amounts must be credited to the German Government by exporters "to be reimbursed at a later date." Exporters who attempt to charge the 5 per cent. levy to British importers will forfeit their claim to reimbursement, in addition to paying a fine amounting to five times the amount they have endeavoured to pass on to the British customer, unless the penal code provides a higher punishment. German manufacturers regard the obligation to bear, for an indefinite period, the cost of the 5 per cent. Reparation Levy as a very heavy charge, a further handicap in the struggle to secure markets at a time when German prices are above those ruling abroad and competition is excessively keen.

SIDE by side with the programme of the new Berlin broadcasting station, the "Berliner Tageblatt" reproduces daily *in extenso* that of the London station (2LO).

Pharmaceutical Society of Great Britain

Council-meeting

A MEETING of the Council was held at 16 Bloomsbury Square, London, W.C., on March 5, Mr. E. T. Neathercoat (President) in the chair. The absent members were Messrs. Hines and Rowsell.

The President intimated that there were no questions.

ELECTIONS AND RESTORATIONS

Thirty-two persons were elected members and sixty-seven were elected student-associates of the Society; several persons were restored to the Register and a number to the Society.

CO-OPTION OF MR. JAMES JACK

The PRESIDENT moved that the casual vacancy caused by the death of Mr. Campkin be filled by the co-option of Mr. James Jack. No words were necessary from him, he said, to commend Mr. Jack to the members of the Council, for he had given long service to pharmacy, not only in Scotland but in a wider field. Mr. Jack had been a member of the North British Executive for a number of years, and had also filled the office of chairman. He (the President) did not entirely hold with the view that territorial representation was necessary on a national body such as the Society, but there was something to be said for that opinion, and generally there were two representatives from Scotland on the Council.

Mr. GUTHRIE seconded the resolution, and said it was not necessary to add anything to the President's words in commendation of Mr. Jack. He himself had considerable knowledge of Mr. Jack, extending over some years, and he could testify to what Mr. Jack had done for pharmacy in Scotland and elsewhere. He was confident that Mr. Jack would make an efficient member of the Council.

The resolution was cordially agreed to.

THE BRIGHOUSE POISONING CASE

The secretary read a letter from Mr. E. W. Norris, district coroner for Halifax, on the subject of a recent strychnine poisoning case at Brighouse (*C. & D.*, March 1, p. 295). The letter contained the following passage:—

The jury expressed the opinion that the attention of the Pharmaceutical Society should be drawn to the danger which may arise if this mixture is prepared with chloroform water and if the ammonium carbonate is added last instead of first. Briefly, the experiments of the county analyst showed that, if the chloroform water contained any free chloroform and the ammonium carbonate was the last of the ingredients to be added to the mixture, the poisonous alkaloids set free by the action of the ammonia are absorbed by the chloroform, with the result that a fatal dose may gravitate to the bottom of the bottle. Should the ammonium carbonate be added to the citrate of iron before the other ingredients are added, the alkaloids are not set free. . . . It was suggested by one of the medical men that the ammonium carbonate might be omitted from the prescription, but my own view is that it would be better to omit the chloroform, as I understand the chloroform water is only used to make the mixture less unpalatable.

The PRESIDENT said that the Council had always discountenanced the use of stock mixtures and dispensing by doctors of medicines prescribed by themselves, except in cases of urgency. He did not think the Council at this stage possessed the facts to enable them to express a final opinion, but the circumstances in the case seem to justify the Council's attitude on these matters. He proposed that the papers be referred to the Science Committee for consideration and report. The proposal was adopted.

INTERNATIONAL PHARMACOPŒIAL BUREAU

A letter was read from the Privy Council with regard to the proposed establishment of an international pharmacopœial bureau, transmitting a letter from the Belgian Ambassador (M. le Baron Moncheur), of which the following is a translation:—

The International Pharmaceutical Federation, sitting at The Hague, has expressed the wish that the Belgian Government should take the initiative in convening a conference, consisting of official delegates from the different powers, for considering the formation of an international pharmacopœial bureau. With a view to meeting this request, the Minister for Home Affairs and Hygiene has decided to promote the assembling of an international conference at Brussels in 1925, for dealing with the unification of potent preparations. This conference will have specially for its object to report on the formation at Brussels of a permanent international pharmacopœial bureau, the establishment charges of which will be divided between the powers taking part in the proportion laid down for the international bureau of the Universal Postal Union. At the request of my Government I have the honour to solicit the gracious intermediation of your Excellency to invite His Britannic Majesty's Government to be represented officially at that conference. I shall take care to communicate eventually to your Excellency the exact date on which the conference will meet, as well as the list of questions which will be submitted for consideration.

The SECRETARY reminded the Council that, on August 21 last year, they had directed him to send to the Foreign Office a letter suggesting that if the Government received an invitation from the Belgian Government to such a conference, it should be accepted, and the Pharmaceutical Society would be prepared to suggest delegates representing the pharmaceutical interests of Great Britain. The secretary added that the letter was acknowledged, and there had now come this letter from the Privy Council. Perhaps the Council might direct him to acknowledge the letter from the Privy Council and still further to emphasise their letter of August last.

The PRESIDENT said he thought that would be the attitude that the Council would wish to take up. It had yet to be made known what the attitude of the Government would be on the question. They might decide to send a Government official as a representative, but, of course, that would not be known yet. He thought the Council should state that, if anybody outside the Government should attend the proposed conference, that would provide an opportunity for a representative of the Pharmaceutical Society to attend.

The President's suggestion was adopted.

A PART I RESOLUTION

A letter was read from the Federation of South-Eastern Counties Associations forwarding a resolution urging the necessity of all prospective students passing Part I of the Qualifying examination before entering on their apprenticeship. The reading of the resolution aroused amusement. At the suggestion of the President the matter was referred to the Education Committee.

THE CHEMISTS' ASSISTANTS' ASSOCIATION

Mr. Edwin Thorpe sent a letter with a report of a meeting held on February 21 to consider the final disposition of the furniture of the old Chemists' Assistants' Association, including a presidential chair, a piano, book-case and contents, which were all now offered to the Society. The announcement was greeted with acclamation.

The PRESIDENT recalled that the termination of the C.A.A. was mentioned at the last meeting of the Council, when regret was expressed that an Association with such a long record of useful work should be wound up. It was some satisfaction to know, however, that though its work was now finished, what it had left in tangible form was being handed over to the Society, and so would preserve its connection. He had great pleasure in accepting the gift. (Applause.)

DISPENSING IN COUNTRY DISTRICTS

A letter was read from the secretary of the International Pharmaceutical Federation at The Hague referring to the question of dispensing of medicaments in country districts. The subject had been raised at the last meeting of the Federation, when it was decided to ask for information on the following points:—

(1) Legal questions relating to dispensing, etc., in country districts;

- (2) Any Government subsidies;
- (3) The relation between the number of pharmacists and the inhabitants;
- (4) What steps would be taken towards the amelioration of the position of pharmacy in such districts.

The PRESIDENT suggested that the best way of dealing with this matter was that it should be left in the hands of the secretary, and this course was approved.

CONFERENCE ON SOCIAL HYGIENE

A letter was read from the National Council for Combating Venereal Diseases enclosing an invitation for the Society to appoint delegates to the Imperial Conference on social hygiene to be held from May 12 to May 16 at the British Empire Exhibition. The PRESIDENT said the Council would probably like to be associated with the Conference, and, after intimating their agreement, the members decided to appoint the President and the secretary as representatives.

FINANCE COMMITTEE

The financial statement is summarised as follows:—Receipts since last meeting, including a balance of £33 Cs. 5d., amounted to £8,620 11s. 9d., comprising the following items:—

Subscriptions, £5,677 7s.; examination fees, £519 19s.; registration fees, £350 14s.; restoration fees and certificates of qualification, £4 2s.; penalties, £26 7s. 2d.; "Pharmaceutical Journal" advertisements, etc., £1,200; "Pharmaceutical Journal" S. A. subscriptions, £63 10s. 6d.; Pharmaceutical Press publications, £2 0s. 4d.; "Pharmaceutical Pocket Book," £20 3s. 5d.; school fees, £18 7s. 6d.; Register of Chemists and Druggists, £22 14s. 3d.; B.P. Codex, 1923, £636 18s. 4d.; interest on investments, £32 4s. 2d.; sundries, £13 3s. 8d. After deducting £4,174 7s. 1d. for payments ordered at the last meeting and £4,400 transferred to deposit account there was a balance of £46 4s. 8d. The other balances were:—Benevolent Fund (current account), £3 6s. 6d.; Benevolent Fund (donation account), £22 16s. 3d.; War Auxiliary Benevolent Fund, £92 15s. 9d.; Orphan Fund, £94 14s. 2d. The report recommended that accounts amounting to £4,377 8s. 11d. be paid, and that the action of the secretary in making payments amounting to £600 6s. 3d. be approved.

The report was adopted.

BENEVOLENT FUND

The report of this Committee showed that eleven applications had been considered and grants varying from £13 to £30 had been made. It was also stated that a communication had been received from the office of the Royal Infant Orphanage referring to the forthcoming festival, which would be presided over by the Prince of Wales, and inviting special donations or subscriptions. The Committee authorised a contribution of £5 5s. from the Orphan Fund.

Accompanying the report was the quarterly summary of applications considered and grants made from November 1923 to January 1924, showing total disbursements of £675.

Mr. H. O. LLOYD, in moving the adoption of the report, pointed out that there were now five orphans under the care of the Committee, this being a larger number than for some years, and unless larger contributions were received there would be a deficit this year. He was quite certain that it was only necessary to mention this fact to get more contributions than they had hitherto received. Mr. Lloyd announced the following special contributions to the fund:—South-East London Chemists' Association (collection), £3 3s.; Hull Chemists' Association (box), £3 3s. 1d.; Ealing Pharmacists' Association, £1 15s.; National Association of Women Pharmacists, £1 1s.; "Anonymous, per B" (St. Helens), £1; Dewsbury Chemists' Association, £3; R. C. Tween, Bushey, £1 1s.; S. T. & S. A. Milbark, 15s.; Rotherham, Salford and Grimsby Chemists' Associations (per Dr. W. J. Melhuish), £1 6s. 1d.; Southport Pharmacists' Association, £14; Walthamstow and District Pharmaceutical Association, £17 17s.; Bristol (per Mrs. Penfold), £6 2s. 6d. Mr.

Lloyd expressed his satisfaction with the exceptional amount that had been raised, and mentioned that the Committee had had under consideration the question of raising more money for the fund this year, but it was hoped to have a fuller announcement ready for next month. He thought, however, he could say that they hoped to use the organisation of the branches to bring before their members in the country the needs of the fund. The report was adopted.

WAR AUXILIARY BENEVOLENT FUND

The report of this Committee showed that eight applications had been received, and grants had been made, or were recommended, varying from £10 to £50. The Committee also submitted an analysis showing the number of cases dealt with during the three months ending January 1 of this year, totalling in grants £201.

The report was adopted.

LEVERHULME SCHOLARSHIPS

The following details regarding the Leverhulme scholarships were placed before the Council:—

Three scholarships are offered annually to student-associates between the ages of nineteen and twenty-two who have completed the period of practical training required for the purpose of the Qualifying examination. The scholarships are of the value of £60 each, the first scholarship carrying with it a medal and the second scholarship a prize of books to the value of £10. The money will be used to pay the school fees of the successful students for their course for the Qualifying examination, and also their examination fees. The surplus will be paid to the students in three instalments. The examination shall consist of papers in botany and pharmacy of two hours, in chemistry and physics of two hours, and in business methods of two hours.

Botany.—An elementary knowledge of the subject, with special reference to plants indigenous to this country.

Pharmacy.—A knowledge of the preparations of the British Pharmacopœia and the processes employed in their manufacture, and of the legal restrictions relating to their storage and distribution.

Chemistry.—The elementary principles of chemistry; metals and non-metals and their compounds.

Physics.—An elementary knowledge of sound, light, and heat.

Business Methods.—(The knowledge of these subjects required will be that which might be reasonably expected from a pharmacist's assistant.) (a) Simple questions upon book-keeping, profit and loss and methods of calculating them, contracts, stock and banking. (b) An essay to be chosen from a list of subjects upon business correspondence, salesmanship and advertising methods.

The examination shall consist of written papers with a minimum number of marks to qualify for a scholarship. The examination will be held in June of each year at London, Birmingham, Manchester, Leeds, Newcastle, Cardiff, Exeter, Norwich, Edinburgh and one other centre in Scotland. On the day on which the examination is held the competitor must be not less than nineteen or more than twenty-two years of age. A student-associate who has passed Part I of the Qualifying examination shall not be disqualified from competing for the Leverhulme scholarships.

Some discussion took place on the question as to Liverpool being also included as an examination centre, and several members considered that it might be a great convenience for some of those who wished to sit for the examinations to be able to attend in Liverpool. It was pointed out that although Manchester would be as accessible as Liverpool to some of the students in the areas it was sought to interest in the scholarships, others would have to submit to serious inconvenience.

Mr. H. M. LLOYD said that if the examinations were held in what he termed secondary towns there would probably be a suggestion that one should take place in South Wales and another at some place in Yorkshire. (Laughter.)

Mr. PARRY retorted that Liverpool represented a population of about three times the size of that of Wales.

Mr. H. O. LLOYD expressed the opinion that they should encourage as many entries as possible.

Mr. WHITE was opposed to arranging for any more centres for the time being, and suggested that they should wait to see how many candidates came forward before they decided to add further centres.

After some further discussion, the PRESIDENT said that the whole idea of the scheme was to enable students to take their examinations at a centre quite near where they were living, and to avoid their having to come to London for the purpose.

The report was adopted.

ANNUAL DINNER

It was resolved to hold the annual dinner on Tuesday, May 20.

There was no other public business.

Branch Meetings

Exeter.—A meeting of the Exeter branch was held on February 27, Mr. P. F. Rowsell (chairman) presiding. The secretary reported that the committee in connection with the scholarship in pharmacy at the South-West University College had appointed as treasurer Mr. W. G. Day, 35 Fore Street, Saltash, who would be pleased to receive subscriptions from pharmacists in Devon and Cornwall. Subscriptions totalling £118 had already been paid or promised. Mr. A. C. Milton (social secretary) was congratulated on the successful whist drive which had taken place, on which a profit of £5 12s. was reported.

Manchester.—The annual meeting of the Manchester and Salford Branch was held on February 26. Mr. Wm. Kirkby, M.Sc., who occupied the chair, reviewed the work of the past session. The election of the executive which followed resulted in the whole of the present members being re-elected, except Mr. Bernard Hough, who was elected in place of Mr. C. Pugh Roberts. The following were elected as Delegates to attend the B.P. Conference at Bath next July. Messrs. Bates, Cleworth, Grier, Kirkby, Miller. Messrs. Franklin, Pidd and Miss Roberts being elected as reserves. A vote of thanks was passed to the officials for their services during the past year, by Mr. D. Dickson, and seconded by Mr. Wyatt. The chairman replied. At the conclusion of the business meeting refreshments were served, this being followed by a concert, which was much appreciated. An excellent programme of music was contributed by the following artists—Misses Miller and Nidd, Messrs. Anderson, Nield and Stephenson. Miss Franklin being the accompanist.

Preston.—A meeting of the Preston Branch was held on February 21, when Mr. J. H. Franklin, Ph.C. (Manchester) gave a lecture on the *B.P. Codex, 1923*. An interesting discussion followed.

Watford.—The Watford and St. Albans Branch met on February 21 to hear a lecture on the *B.P. Codex* by Mr. F. Browne. Specimen leaflets were sent to the doctors in the area. Mr. Bennion (chairman of the branch) presided, and at the end of the address proposed a vote of thanks, Dr. Oliver seconding. Dr. Buchanan suggested a system of separating drugs, etc., in common use from those not often required, or those used in some parts of the world and not in others.

POLYCHROMATIC BLOOD.—Lecturing at the Royal Institution, London, on March 4, Professor Barcroft pointed out that blood is not necessarily red. Cuttlefish blood is colourless when it passes to the gills, blue when it leaves them. There is a starfish in the blood of which may be seen colours of the most diverse type—brown, purple, green, lemon yellow, and indigo blue. The brown colour becomes green on losing its oxygen. These colours enable an animal to grow large owing to their power of carrying oxygen.

POINTED ADVERTISING.—Under the title "Venables' Medical Hints," Mr. Fred Venables, chemist and druggist, King Street, Hammersmith, London, W., and branches, has issued a 100-page publication (Vol. 1, No. 1, 3d.), on alternate pages of which are health hints and a price list in parallel columns. Facing these are advertisements, and the contents also include a photographic section and particulars of a competition. Attractively printed and bound, the work should quickly repay the cost of production.

Ideal Home Exhibition

APART from the photographic section, the Ideal Home Exhibition, which was opened at Olympia, London, W., on February 28, and remains open until March 22, has few stands which are directly concerned with pharmacy, though several of the exhibitors' names are quite well known to chemists. In the Township of Ideal Homes is a two-story house built in accordance with the "Cuypers" system by BURT, BOULTON & HAYWOOD, LTD. FASSETT & JOHNSON, LTD., at their exhibit in the gallery, extol the virtues of liquid veneer polish, and at a neighbouring stand, presided over by three strikingly-dressed maidens, visitors are urged to sample KOLYNOS dental cream. In the same section, J. G. FRANKLIN & SONS, LTD., have an interesting display of rubber goods; the HARPIC MANUFACTURING CO., LTD., call attention to "Harpic Household Helps"; the demonstrations of the use of Peldo by C. R. HARKER, STAGG & MORGAN, LTD., are creating crowds; PURE PLANTATION RUBBER PRODUCTS, LTD., show that the new uses to which rubber can be put are by no means exhausted at present; the exhibit of the SCHOLL MANUFACTURING CO., LTD., must make a special appeal to sufferers from foot troubles after a tramp round Olympia; the warming and sustaining properties of HORLICK'S MALTED MILK are highly appreciated; THERMOS, LTD., have a comprehensive display of "thermos" vessels; and the WILKINSON SWORD CO., LTD., are showing, among other lines, safety razors and scissors. Other exhibits of interest are S. GUTTERMAN & CO., LTD. (iceless refrigerators); JEVES' SANITARY COMPOUNDS, LTD.; THE PEPSODENT CO. (dentifrice); and PRICE'S PATENT CANDLE CO., LTD.

THE PHOTOGRAPHIC SECTION

Compared with the Photographic Fair of previous years, this section of the Exhibition is on a much smaller scale, accounted for chiefly by the absence of exhibits covering the dealers' side of the business. The Professional Photographers' Association has arranged a display of portrait, pictorial, commercial and technical photographs, among which is one of the manufacturing plant and bottle-filling machinery of Virol, Ltd. The stands of main interest to chemists are dealt with in the following paragraphs:—

DAVID ALLAN has what is perhaps the most comprehensive collection of developing tanks and dark-room lamps ever arranged at an exhibition. Among the newer models of the former is the Junior Dallan for plates and one for roll films. The Filleasy rack and tank is particularly adapted for panchromatic workers, and the Search lamp should prove invaluable in developing and printing departments. The apparatus is well made, and the prices reasonable.

AMALGAMATED PHOTOGRAPHIC MANUFACTURERS, LTD., have chiefly devoted their display to cameras, among which is a focussing vest pocket model. APeM cameras are strongly made, light and well finished. Roll films are represented by Rajar and colour photography by the Paget method.

W. BUTCHER & SONS, LTD., have arranged a striking display of cameras, in which the popular priced ones occupy a prominent position. A new type likely to have a good demand is a reflex carbine. Chemists who have trouble with their "D. and P." work would do well to consider the installation of one of the "Butcher" systems. For developing, two sizes of tanks are available, those holding nine gallons of solution, which deal with 108 2½-in. by 3½-in. films per hour, and others, with a capacity of five gallons, develop forty-eight 2½-in. by 3½-in. films per hour, or, of course, an equivalent quantity of other sizes. One assistant only is required.

E. B. FRX, LTD., who specialise in photographic accessories, are exhibiting a wide range of masks, film wallets and passe-partout bindings.

HOUGHTONS, LTD., show cameras to suit every purpose and every climate. The new models at popular prices embrace a roll-film reflex and the Ensign-Cadet. The Ensign-Speedy film has been much appreciated during the past year, and a competition is being launched in connection with it.

ILFORD, LTD., have an interesting collection of Japanese photographs illustrating the disastrous effects of the recent earthquake. The company have adopted an ingenious method of showing light-filters. A revolving drum is illuminated inside and has the various colour-filters fitted on the outside. Any filter on the drum may be inspected by means of a spectroscope on a sliding stand. The superiority of panchromatic plates over the ordinary type is well demonstrated.

THE IMPERIAL DRY PLATE CO., LTD., have just put on the market a new self-toning paper under the name of Collodone. The company tell us that their thirty-six-hour "D. and P." work has been much appreciated by chemists.

JOHNSON & SONS (MANUFACTURING CHEMISTS), LTD., are showing a wide range of photographic chemicals and specialities, such as Septon, and giving demonstrations of dye-toning, the easy manner in which coloured pictures can be produced arousing considerable interest.

KODAK, LTD., have arranged a comprehensive exhibit which includes new models of photographic cameras and the Ciné-Kodak. By means of the latter apparatus, and through the Kodoscope, it is possible to make motion pictures and show them at home. Compact, easily operated, approximately the size of a box-form camera, the Ciné-Kodak has a capacity for 100 feet of daylight-loading film—enough to photograph continuously for over four minutes at the regulation rate of sixteen pictures per second. Ciné-Kodak film is only 16 millimetres in width, as against 35 millimetres for professional film, and is proportionately less in height, so that 400 feet of Ciné-Kodak film give the same period of projection on the screen as 1,000 feet of standard film. With other motion pictures, the film must be developed, the negative printed on positive film, and then the positive developed. With Ciné-Kodak film no printing is required. The specially devised photographic emulsion, after the negative image has been developed, passes through a chemical process which reverses the negative to a positive image. One film only is used to make the negative and the final positive. Only safety film is supplied, so there is no possibility of having the picture on inflammable film as if standard width were used. The Kodoscope projects the picture on to a screen, 40 in. by 30 in., which can be rolled up and packed away when not in use. A film-lending library is to be started shortly. Demonstrations of various processes are being given at the stand.

Price Maintenance

MANUFACTURERS' INTEREST IN FIXED PRICES

ADDRESSING a meeting of the Incorporated Sales Managers' Association in London, on March 3, Sir William Glyn-Jones, on behalf of the Proprietary Articles Trade Association, suggested that manufacturers should attempt to maintain retail prices. Sir William held that, next to his own interest, the interests of the consumers of his articles were the chief concern of the manufacturer. Having secured his own profits, the manufacturer would support that system of trading which enabled the public to get his goods at the lowest price. In a conflict of interests between the shopkeeper and the public, the manufacturer must always be on the side of the public. Yet some of the shrewdest and most successful manufacturers of articles whose names were household words must have taken great pains to prevent their goods being sold at less than the fixed prices. It was not unreasonable to infer that the object of such manufacturers had been to secure that the public were better served in the matter of distribution than would be the case if shopkeepers were forced by competition to sell without adequate profit. In the absence of a fixed selling price, experience showed that prices of proprietary articles would reach so low a level as to leave no profit at all. Then the trouble began, both for the manufacturer and consumer. The cutter of prices took profits by stealth—sometimes, if not dishonestly, at any rate by questionable methods. That the fixing of selling prices was possible

had been proved by experience in nearly all trades, in which for years manufacturers, either as individuals or in combination, had effectively prevented undue profiteering. As the Profiteering Committee appointed in 1919 had stated, there was little fear of the margin of profit so fixed being excessive.

CO-OPERATIVE UNION CRITICISM OF P.A.T.A.

An attack was made on the Proprietary Articles Trade Association by Mr. H. Ogden, assistant secretary of the Co-operative Union, at a meeting at Eccles, on February 28. Mr. Ogden stated that a large number of the articles concerned were medicines or curatives and patent foods used by the poor as well as the rich. This had apparently no concern for an association of this kind: the poor might perish so long as profits were secured. The P.A.T.A. was selfish and anti-social. It did not seek to cheapen supplies to the public. Fifty per cent. of the trade of a chemist was in these proprietary articles, which gave a large profit to the retailer, a still larger profit to the wholesaler, and the largest profit of all to the manufacturer. In the last few years the Association had widely increased the number of proprietary articles included in its list, and the opposition of the Association to co-operation was becoming an increasing menace. That opposition, of course, was all the more effective because of the demand created for such proprietary articles by the systematic advertising of their products by firms producing only one or two articles. The comparative measure of success which had attended the operations of the Association in articles usually supplied through chemists had led to an extension of the principle in some cases to commodities more usually sold as groceries, and it was all the more important, therefore, that co-operative societies should be alive to the situation and be prepared to take considered steps to meet this organised threat to co-operative principles. The nature of the Association and the character of its operations would seem to bring it within the broad term of "combine," and political action might well be taken by pressing this Labour Government to introduce legislation on the subject. The possibility of securing a remedy in that direction, however, was at the moment remote. It would seem that much more effective action could and should be taken by co-operative societies themselves. This could best be done directly by refusing to sign any agreement which involved the differential treatment of a co-operative society from other traders, and which sought to nullify the benefits to be derived from the association of consumers in co-operative societies. This course had already been taken by a considerable number of societies. The Co-operative Wholesale Society had already successfully placed upon the market a large number of articles which might be called substitutes or equivalents for the price-protected goods of the P.A.T.A. One hundred such articles had already been placed on sale. He regretted to say that seventy retail co-operative societies had signed the agreement of the P.A.T.A., for reasons which seemed to them good and sufficient; but he hoped that as time went on such societies would terminate their agreement and give their whole allegiance to the Co-operative Wholesale Society in the matter. It should be well within the power of the movement to dispense with proprietary articles altogether, and thus secure a victory for the principles of justice. The address was followed by a discussion generally condemnatory of the P.A.T.A. policy. Mr. Ogden, replying to questions, said that it would take some time and a good deal of education in co-operation before the present system could be entirely changed. The Co-operative Wholesale Society, in providing alternative goods to those listed by the P.A.T.A., could not concentrate on one article, and to that extent co-operators were handicapped in their efforts to defeat the Association. The march of events, however, would show that the rights of the consumers must prevail over the pocket privileges of grasping profiteers. The co-operators could not open a chemist's shop with any prospect of success unless they agreed with the P.A.T.A. that one of the management committee should be a member of the Pharmaceutical Society. A drug-store could, however, be opened without such stipulation.

Festivities

Whist Drive at Folkestone

THE Folkestone Chemists' Association held a whist drive and social evening at the Hotel Majestic on February 27, the President (Mr. F. C. Jones) and Mrs. West welcoming members and friends, of whom over sixty were present. The prizes were the gifts of wholesale houses. After refreshments had been served, a dance and musical programme was carried through, and thoroughly enjoyed.

Southend Chemists' Whist Drive

THE Southend-on-Sea Association of Pharmacists held an enjoyable whist drive on February 27, when a company numbering over a hundred was present. The numerous handsome prizes were given by various wholesale houses. Mr. George Bruce (President) said that, as a result of the drive, quite a nice sum would be sent to the Pharmaceutical Society's Benevolent Fund. Mrs. Cowe presented the prizes to the successful players. The evening was organised by the Entertainment Committee (Messrs. Bruce, Powell, and Hope Longthorne), the M.C. being Mr. Fox.

Military Whist

TRUE to their well-earned reputation for originality, the National Association of Women Pharmacists inaugurated, on February 28, another new departure in sociality. Not theirs to inflict on their members and friends the tedium of ordinary whist, it must needs be a new variety—*Whist Militaire*. So when over 100 pharmacists and friends assembled at the Hotel Russell, Russell Square, London, W.C., they found Mr. A. R. Keith commander-in-chief of warlike operations which involved the capture of flags representing practically every country in the world. Emissaries from Russia were sent to Spain, Australia and France; valiant bands from Ireland swarmed into Turkey, Holland and Sweden to capture or be defeated what time their captain held the fort with what success he (or she) could. It was all very jolly and exciting, and a welcome truce was called about the middle of the play while the hotel commissariat fed the fighters with dainty fare. Then one had time to observe that the Women Pharmacists had secured (besides Mr. and Mrs. Keith) Lady Glyn-Jones, Mr. Edmund White, Mr. Hugo Wolff, Mr. H. A. Irwin (President of the Ealing Pharmacists' Association), Mr. G. F. Barratt (President of the South-West Association), Mr. J. P. Ellerington, Mr. and Mrs. W. Chalmers, Miss Agnes Borrowman, Mr. and Mrs. J. P. Gilmour, Miss King, Mr. and Mrs. W. P. Want, Miss Freke, Mr. and Mrs. E. A. Atkins, Mr. and Mrs. J. Thomas, and many others as enthusiastic "captains and soldiers." Towards the end of the conflict the company was reinforced by the President of the Pharmaceutical Society (Mr. E. T. Neathercoat), Sir William Glyn-Jones, Mr. and Mrs. A. R. Melhuish, and Mr. Harry Martin (President of the Western Pharmacists' Association), all of whom had come along from the West Ham Association dinner. The return of the happy warriors to the fray after the supper interlude eventually led to the victory of Greece (with Miss Denis Hayes as captain) with twenty-seven flags, while Roumania was consoled with a "booby" medal for having secured only fifteen. Much praise is due for the excellence of the arrangements and the entire success of the evening to Mrs. Irvine (suffering acutely from neuritis but smiling and undaunted), Mrs. Freke (President of the Association), Miss Andrews, Miss Sproule, Miss Hooper, Miss Edmond, Miss Fordyce, Miss Snelus, Miss Hodgkinson, Miss Claremont, and Miss E. K. Hughes.

A "Coming-of-Age" Dinner and Dance

WITH the disappearance of the local associations under the newer schemes of organisation, events such as the one celebrated by the members of the West Ham and District Association of Pharmacists at the Holborn Restaurant, London, W.C., on February 28, a "coming-of-age"

dinner, are likely to be few and far between. The guests included a large number of ladies and a representative contingent from wholesale houses, the reputation of the Association's dinners combining with the importance of the occasion in providing a function which would not be readily missed. The President (Mr. J. Reed) and Mrs. Reed received the visitors, who included Mr. and Mrs. Catto, Mr. and Mrs. C. A. Clark, Mr. and Mrs. H. S. Foster, Mr. and Mrs. Gray, Mr. and Mrs. Kirkpatrick, Mr. and Mrs. Lawman, Mr. and Mrs. J. Milner, Mr. and Mrs. Herbert Skinner, Sir William Glyn-Jones, and Messrs. W. J. Beardsley, S. Clifford Jones, G. A. Mallinson, Harry Martin, W. Potter, G. A. Tocher, and B. Wathen. Following the loyal toast, the President vacated the chair in favour of Mr. Harold Mitchell, who briefly alluded to the unique occasion and to the presence of himself, the first President, and Mr. F. W. Gwinn, the first secretary. The last-named, as one of those at the first meeting, congratulated the association. It had been suggested that to commemorate the Association's majority it should be presented with a President's badge, and the carrying out of the idea had readily been assumed by the past-Presidents, the surplus money being handed to the Pharmaceutical Society's Benevolent Fund. Fate had been kind and only robbed them of three of the past-Presidents, whose names, J. H. Matthews, W. R. Barnes, and J. Kirkpatrick, Mr. Gwinn pronounced with the company upstanding. The chairman (Mr. Mitchell) then described how the Association came to be formed, and invested the President with the badge, on which the names of the donors are inscribed, and to which each holder of the office will add a bar. Mr. Reed resumed the chair and briefly replied. In proposing "The Pharmaceutical Society: The Retail Pharmacists' Union," Mr. C. A. Jones mentioned that there were some who did not always see eye to eye with the councillors, but he considered pharmacy was never in safer hands than at present. Mr. E. T. Neathercoat (President of the Pharmaceutical Society), in acknowledging, congratulated the Association, and said it was evidently an evening for reminiscences, but he did not propose to enter into any either on his own part or the Society's, though he recalled that it was to the West Ham pharmacists that he made his first speech when originally putting up for the Council fifteen years ago. Mr. Melhuish (vice-chairman, R.P.U.), who also responded, regarded it as a happy augury that the two bodies should be linked in the same toast and congratulated the Association on coming of age. The Union, compared with the lives of the Association and the Society, was as a child, but those who had to do with it during the weaning and teething stages and had watched it through its sturdy youth may be proud of it. It had created fresh records this year, but there were still greater fields for its activities. The times of arranging the contracts with the Ministry of Health were periods of stress with the Executive and secretary, when criticisms and doubts were levelled at them. The Executive were a sane body of business men pursuing their course evenly and refusing to be hurried or flurried, but who are going to do their best for chemists in this matter. The toast of "The West Ham Insurance Committee" was proposed by Mr. F. R. Maxey, who emphasised the cordial relations of the chemists with the Committee, and replied to by Dr. Beadles, chairman of the



MR. JOSEPH REED, President, West Ham Association. Born at Canonbie, apprenticed at Dumfries, gained experience at Ware, and qualified in 1897. In business in West Ham for twenty-five years.

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Committee. Mr. J. Downing, President of the North London Pharmacists' Association, gave "The West Ham and District Association of Pharmacists," referring to the greatness of the record of the association, which the past Presidents had honoured in so striking a fashion. Their numbers were not quite so strong as some other similar bodies, but they made up for it in enthusiasm, of which he described the President and secretary as a concentrated infusion. He congratulated "Len." Kirkpatrick on winning the billiards handicap, and also the shooting team; but, as President of West Ham, he would be most proud of the bowlers, to whose sportsmanship and skill he paid a glowing tribute. North Londoners would always be pleased to meet sportsmen of such a calibre as West Ham. The President, after expressing his appreciation of the work of Mrs. C. Andrews Pratt, Miss Kirkpatrick, and Messrs. C. Andrews Pratt and B. Wathen, referred to the silver wedding which Mr. and Mrs. Andrews Pratt had celebrated this year. Mr. Andrews Pratt had a great weakness for springing surprises, and they proposed paying him back in his own coin. He (the President) had great pleasure in presenting them, on behalf of the Association, with a silver tray, an illuminated address, and a book with the names of the donors. Mr. Andrews Pratt, who admitted the surprise, said his work for the Association had been a labour of love, and everything he had done had been appreciated. Mrs. Andrews Pratt also briefly replied. Mr. J. Thomson proposed "Friends" to which Mrs. Herbert Skinner and Sir Richard Winfrey briefly responded. The collection for the Pharmaceutical Society's Benevolent Fund realised £15, and the floor was cleared about 10.30 p.m. for dancing.

Liverpool Chemists' Dinner

THE annual joint dinner of the Liverpool Chemists' Association and the Liverpool Branch of the Pharmaceutical Society (*O. & D.*, March 1, p. 299) was held at the Adelphi Hotel on February 27, over eighty members of the wholesale and retail branches attending, though at least thirty absentees through illness were reported. Mr. A. W. Ashcroft (President), accompanied by Mrs. Ashcroft, who had assisted at the reception, presided, the company including many ladies. Among those present were: Mr. E. H. Simmons (Pharmaceutical Society's Council), Dr. Murray Cairns, Messrs. T. E. Lescher (Evans Sons Lescher & Webb, Ltd.), W. H. Saunders (Ayrton, Saunders & Co., Ltd.), L. Moreton Parry (Pharmaceutical Society's Council), and W. Gill Hodgson (secretary, National Insurance Committee, Liverpool). After giving the loyal toasts, the President submitted "The Pharmaceutical Society of Great Britain," coupled with the name of Mr. Simmons. He took the first opportunity to congratulate Mr. Simmons on his election to the Society's Council, and to congratulate Lancashire on having added such a worthy representative. He wondered whether pharmacists as a whole appreciated at all as they ought the services and sacrifices of the members of the Pharmaceutical Council. Some critics were accustomed to run down the Society and its secretary, Sir William Glyn-Jones. One of this type of critic remarked recently that he "could not see what the Society had done for pharmacists." In reply he (the President) asked where the profession would have been in the National Health Insurance negotiations but for the Society. Where would pharmacists have been in regard to the first draft regulations under the Dangerous Drugs Acts? Looking at the register of the pharmacists of Great Britain, he did not find that the critic to whom he referred had remained a member of the Society. It could be imagined that a young man, to whom each pound sterling was a consideration, might let his subscription fall into arrear, but he (the President) could not imagine how a wealthy man could allow himself to enjoy all the advantages which the Society had secured for him without retaining his membership. Would it not be a good thing to make the retention of membership compulsory? Personally he was more proud of being President of the Liverpool Chemists' Association, because it was a voluntary organisation, than even of being chairman of the local branch of the Pharmaceutical Society,

but he could not see how anyone trading in the district could ignore either the Association or the Society's branch. He regarded the joint organisation in the light of a large family all interdependent, and he regretted the absence, through the inclement season, of the "grandfather of local pharmacists," Dr. Charles Symes. They were proud of him and proud of the young men who, having saved the Empire, were taking an active interest in pharmaceutical politics. (Applause.) In reply, Mr. Simmons said he spent his youth, the most epoch-making time of his life, in Liverpool. He claimed for the Pharmaceutical Council that it gave most sympathetic consideration to every resolution, suggestion, or criticism received, whether from the smallest village or the largest city. Nothing was turned down without due regard. The Pharmaceutical Society was the one body established by law to defend pharmacists, and in his opinion, though his experience was yet short, he thought the Council worthy of much praise. It was not the weak-kneed, jelly-fish sort of body which some critics assumed or imagined. The Council did not shirk the more onerous mode of dealing with a matter whenever that seemed to be most in the interest of the profession. Each pharmacist should live for the profession as a whole. All honour to the Liverpool Association. From its earliest days it had fostered the education of the young men as it now fostered the education of both young men and young women. He did not know any other association which had so long, so systematically and so thoroughly organised. The Association carried with it traditions and records which it would be the greatest pity to lose sight of. It was such associations which had made possible the institution of the branch system throughout the country. No man who did not contribute his quota had any right to criticise its work. Such a critic seemed to be a man of narrow vision, grovelling in the mud, and reminded one of the couplet, "Two men looked through prison bars: the one saw mud, the other stars." Dr. Murray Cairns proposed "The Liverpool Chemists' Association." He wondered how many of his present hearers were at the dinner "umpteenth" years ago, when he had the honour of submitting the same toast (several of the company signified that they recalled the occasion), during the presidency of Mr. Anthony Buck, who died too young. On that occasion he (Dr. Cairns) brought some "ready-money" cards, which were sold and sold again for the benefit of benevolence. Well, he had now just returned from Crewe, where he had applied tests to ambulance students of the L.M.S. Railway Co. Where did he go to get the problems for Crewe? To the pharmacist. One problem was: "An assistant mounts to a high shelf to reach a large jar of ammonia (a Winchester of ammon. fort. 0.880), with which he falls, breaking the glass, thus cutting and half-suffocating himself. How is first-aid to be given?" Proceeding, Dr. Cairns gave interesting and amusing reminiscences of his own examination in pharmacy during his fourth year of medical training. In acknowledging the many friends he had found among pharmacists and paying homage to their skill and courteous readiness to help medical men, he recalled the illustrious Presidents of the Liverpool Chemists' Association, and hoped they would continue to snatch up and carry forward the Delphic fire year after year. "I take this opportunity," he said, "publicly to acknowledge, not only for myself, but for many other members of my profession, an indebtedness to pharmacists for kindnesses untold by giving your help to a medical man who sought your aid when in doubt as to the size of a dose or some other detail." In response, Mr. J. L. Hirst (hon. secretary) said it was particularly refreshing to hear the kind words uttered by Dr. Murray Cairns. During the last three years the executive of the Liverpool Chemists' Association had organised thirty lectures on professional, educational and business subjects. On the social side were four dances, two summer excursions, three children's New Year parties, and two annual dinners. Last, but by no means least, in this hotel three smoking concerts were held, which realised £336 4s. for the Benevolent Fund. Other toasts were given briefly, as the hour grew late. A capital programme of musical and humorous items was presented.

Trade Report

The prices given in this section are those obtained by Importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling, packing, etc. Qualities of chemicals, drugs, essential and fixed oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C.4, March 6.

THERE has been little inquiry for crude drugs this week, the markets, with the exception of one or two items, being featureless. Tinnevelly senna has been in good demand for the cheaper qualities, stocks of which are very small, while Tinnevelly pods are almost unobtainable. Continental buying of Japanese dementholised oil of mint has been a feature, the business being chiefly for afloat parcels, January-March and March-May shipments at rising prices. Menthol to arrive has slightly appreciated. Honey is very firm and in continually rising tendency. Balsam tolu is about 3d. per lb. cheaper. Vanilla is a rising market. Cascara sagrada remains very firm. Beeswax is scarce. Matto Grosso ipecacuanha is less active, but the price is unchanged. English castor oil is again £1 per ton higher; linseed oil is substantially lower, and turpentine has had a dull week. Canary seed has been in slightly more demand, and sellers are holding Mazagan for higher prices: cumin seed is the turn easier. Japanese refined camphor is a dead letter in the absence of Continental demand. Among pharmaceutical chemicals the few movements in prices are in a downward direction, with a limited business. Acetanilide and calcium lactate are rather easier, likewise hexamine, and B.P. creosote, phenacetin, phenolphthalein, sodium salicylate and sulphonal. A poor week of business is recorded in industrial chemicals, and the changes in value are mostly in buyers' favour. Among the cheaper products are barium chloride and potassium carbonate; arsenic is stagnant at the moment, and the position is unsettled. Lead products, such as red and white lead, and litharge are dearer. The marked weakness of francs, which touched a new "record" of 106.70 to the pound on Tuesday, is an unfavourable symptom, and makes business with the Continent more difficult than ever. It is believed that a further sharp decline is regarded as inevitable.

Higher	Firmer	Easier	Lower
Anise star oil	Benzonaphthol	Acetanilide	Balsam tolu
Castor oil (Hull)	Cassia oil c.i.f.	Ammon. benzoate	Barium chloride
Emetine salts	Geranium oil c.i.f.	Aspirin	Calcium lactate
Mint oil (Fr.)	Lead acetate	Cloves (Zan.)	Cottonseed oil
Peppermint oil (Amer.)	Methy. sulphonal	Coriander oil	Hexamine
Petroleum jellies	Sodium acetate	Creosote, B.P.	Linseed oil
Quinidina, pure and sulph.		Cumin seed	Potash carb.
Senna		Lemon oil	Pulv. scidlitz
Spike oil (Fr.) c.i.f.		Pepper, white	Sulphocarbo- lates
		Phenacetin	
		Phenolphthalein	
		Turpentine	

Cablegrams

NEW YORK, March 4.—Business is fair. Peppermint oil in tins has advanced to \$3.60 per lb., and belladonna leaves to 27c. per lb. Mercury is also higher at \$60.00 per flask. Menthol has declined to \$11.75 per lb., and Curaçao aloes in cases to 10c. Sweet oil of birch is lower at \$1.75, and short buchu has declined to 75c. per lb. Acetanilide is cheaper at 31c. per lb.

BERGEN, March 5.—The total catch of cod for the whole of Norway since the opening of the season amounts to 6,500,000, against 9,400,000 for the corresponding week of last year, and the yield of steam-refined medicinal oil is 14,099 hectolitres, against 19,159 hectolitres last year. Finest new non-freezing medicinal oil is quoted at 115s. per barrel c.i.f. principal U.K. ports.

Exchange Rates on London

The following is a list of Continental and other exchange rates against the pound sterling on London prevailing at 4 p.m. on Wednesday:—

Place	Method of Quoting	Par of Exchange	February 27	March 5
Amsterdam	Fl. to £	12,107	11.51½—11.51½	11.53½—11.54
Berlin	M. to £	20.43	19½—20½ billions*	19—20 billions*
Brussels	Fr. to £	25.22½	123	121½—121½
Calcutta	Per rup.	24d.	16½d.—16½d.	16½d.—16½d.
Christiania	Kr. to £	18,153	32.59—32.63	31.52—31.56
Constantinople	Est. to £	110	825—845	830—845
Greece	Dr. o £	25.22½	252—256	260—265
Italy	Lire to £	25.22½	100—100½	100½—100½
Kobe	Per yen	24.58d.	25½d.—25½d.	24½d.—24½d.
Lisbon	Escu.	53d.	1½d.—1½d.	1½d.—1½d.
Madrid	Pts. to £	25.22½	34.02—34.05	35.25—35.28
Montreal	\$ to £	4.86½	4.44—4.44½	4.44—4.44½
New York	\$ to £	4.86½	4.29½—4.29½	29½—30½
Paris	Fr. to £	25.22½	104.80—104.90	105.40—105.50
Singapore	Per dol.		2½d.—2½d.	2½d.—2½d.
Switzerland	Fr. to £	25.22½	24.81—24.84	24.83—24.86
Vienna	Kr. to £	24.02	303,000—306,000	303,000—306,000

* Nominal.

Revue des Marchés

Sommaire des principaux mouvements des prix des drogues, essences, produits chimiques et pharmaceutiques sur le marché de Londres.

Abréviations d'usage employées pour indiquer les mesures de poids et de capacité:—Ton = 1016 kg.; Cwt.=50,8 kg.; lb.=453 gr.; oz.=23,34 gr.; Gal.=4546 c.c.

Le sujet intéressant pour le marché c'est la baisse du franc, qui rend très difficile les exportations et on constate un ralentissement de la demande de l'étranger. En drogues, la cote du menthol flottant est en hausse légère; le baume de Tolu, par contre, a baissé de 3d. la lb. Les quantités disponibles de feuilles de séné sont actuellement excessivement restreintes, et les quelques lots sont offerts à des prix plus élevés. La vanille est en hausse; le prix du cascara sagrada reste très ferme; le cours de l'ipéca, bien que moins demandé, est inchangé. L'acide citrique est en bonne demande et on signale une avance de ½d. la lb.; l'acide tartrique se traite aux cours précédents; d'autre part, la crème de tartre est en baisse légère. Peu d'affaires en produits pharmaceutiques, dont les prix sont moins fermes. Sont en baisse: l'acétanilide, le lactate de calcium, l'hexaméthylène-tétramine, le creosote, la phénacétine, la phénolphthaleine, le salicylate de sodium et le sulfonyl. Les produits chimiques industriels souffrent du ralentissement des demandes et quelques affaires seulement se sont effectuées avec un recul des prix, notamment pour le chlorure de baryum et le carbonate de potassium. D'autre part le litharge, la céruse et le minium de plomb sont en hausse.

Zum Marktbericht

Überblick über die wichtigsten Preisveränderungen auf dem Londoner Drogen- und Chemikalienmarkt.

Abkürzungen:—Ton=1016 kg; Cwt.=50,8 kg; lb.=453 g; oz.=28,34 g; Gal.=4546 ccm.

DIE Unterwertung des französischen und belgischen Franken bedeutet schärferen Wettbewerb für das englische Auslandsgeschäft, und hat bereits ungünstig auf die Ausfuhr eingewirkt. Auf dem Drogenmarkt wurde Menthol schwimmend, zu etwas höheren Preisen gehandelt. Honig lag sehr fest bei weiter anziehenden Preisen, dagegen war Tolubalsam ungefähr 3d. das lb. billiger. Die Vorräte an Sennesblätter sind fast vollständig geräumt, und die kleinen Posten, die angeboten wurden, verkohnten zu erhöhten Preisen, wobei gesunde grüne Ware nicht zu haben ist. Vanille zeigt steigende Tendenz. Cascara Sagrada bleibt sehr fest. Bienenwachs ist knapp. Brochwurzel (Matto Grosso) war weniger gefragt bei unveränderten Preisen. Die Nachfrage für Zitronensäure war befriedigend und der Preis zog um ½d. das lb. an. Weinstensäure war unverändert, dagegen verkohnte Cremortartar etwas billiger. In Rohglyzerin rechnen englische Produzenten mit einer Erhöhung der Preise, in Erwartung einer beträchtlichen Belebung der Nachfrage für den Weltbedarf, wobei kontinentale Produzenten ihre anfänglich niedrigeren Notierungen in letzter Zeit fortlaufend erhöht haben. Bei sehr kleinem Geschäft zeigten die Preise für pharmazeutische

Chemikalien fallende Tendenz; Antifebrin, Calciumlactat, Hexamethylentetramin, Kreosot, Phenacotin, Phenolphthalein, Natriumsalicylat und Sulfonal waren billiger. Es bestand recht wenig Interesse für Schwermetalle, und die Preisveränderungen lagen meistens zu Käufers Gunsten. Die Forderungen für Bariumchlorid und für Kaliumkarbonat gingen zurück, dagegen waren Lithargyrum, Bleiweiss und Bleimennige höher bewertet.

Crude Drugs, etc.

AGAR AGAR is steady at from 5s. 7½d. to 5s. 9d. per lb. on the spot.

ALBUMEN is steady at from 4s. 11d. to 5s. per lb. on the spot, and at 4s. 6d. per lb. c.i.f.

ANNATTO SEED.—Spot sales of new crop have been made at 1s. 6d. per lb. The "Culebra" from Jamaica has brought 50 bags to London.

ANTIMONY.—Although there has been no further quotable advance in refined, the aspect of the market for all descriptions of raw and refined is still strong under the very limited quantities obtainable. Best English regulus stands at about £60 per ton, and small warehouse lots of Chinese are variously quoted from £52 to £55. The cost of antimony ore is higher, at about 5s. 6d. to 5s. 9d. per unit.

BALSAMS.—Tolu is rather easier at 8s. 3d. per lb. for good hard. Genuine Peru is obtainable at 7s. 6d. per lb.

CADMIUM has been in steady demand from manufacturers, and importers are asking from about 2s. 6d. to 2s. 9d. per lb., according to description.

CAMPHOR.—English refiners quote bells at 5s. 2d. to 5s. 4d., and flowers at 4s. 4d. to 4s. 5d., as to quantity; tablets, 4 to 16 oz., 4s. 6d.; 1 oz. or 2 oz., 4s. 8d.; ½ oz., ½ oz. and ¼ oz., 4s. 10d. per lb. [Corrected prices.] Japanese refined slabs continue extremely dull.

CIVET.—Abyssinian in original horns is quoted at 10s. 6d. per oz.

CLOVES.—Zanzibar remain quiet, prices being a trifle easier at from 1s. 1d. to 1s. 2d. per lb. on the spot as to quality. To arrive, sellers of March-May shipment quote 1s. 0½d. per lb., c.i.f. The weekly wharf statistics show 2,107 bales landed and 260 delivered, leaving a stock of 35,948 bales, against 1,566 bales in 1923 and 13,557 bales in 1922.

COD-LIVER OIL.—Our Bergen correspondent writes, on February 25, that the cod fisheries were hindered last week by stormy weather. The total output of all the Norwegian cod fisheries, compared with that of previous years, is as follows:—

	Catch of cod.	Yield of steam refined c.i.o.	Livers for crude oil.
Feb. 16, 1924 ..	3,000,000	6,593 hectol.	2,200 hectol.
" 17, 1923 ..	3,900,000	7,635 "	2,209 "
" 18, 1922 ..	3,300,000	6,803 "	1,313 "
" 19, 1921 ..	3,900,000	6,800 "	1,300 "
" 21, 1920 ..	2,900,000	4,800 "	1,200 "

The market remains firm, and finest new non-freezing steam-refined quality is quoted at from 115s. to 116s. per barrel, c.i.f. London; supplies of new oil are small. In London, agents quote finest new Lofoten non-freezing oil at about 114s. to 115s. per barrel c.i.f., with a fair business passing.

Writing again on March 3, our Bergen correspondent reports that the cod fisheries are still hindered by stormy weather and the progress of the catch is limited. The total output of all the Norwegian fisheries, compared with previous years, is as follows:—

	Catch of cod.	Steam refined cod liver oil.	Livers for crude oils.
To Feb. 23, 1924 ..	4,400,000	9,991 hectol.	2,436 hectol.
" 24, 1923 ..	6,300,000	12,921 "	3,622 "
" 25, 1922 ..	5,000,000	10,702 "	1,855 "
" 26, 1921 ..	6,900,000	12,571 "	2,337 "
" 21, 1920 ..	2,900,000	4,787 "	1,233 "

The supplies of new season's oil are still small. There are several buyers in the market, and the price continues firm, new non-freezing steam-refined oil offering at from 115s. to 116s. per barrel, c.i.f. London.

DRAGON'S BLOOD.—The "Macedonia" has brought 15 cases, and the "Laomedon" 23 cases, both from Singapore.

ELEMI remains plentiful and slow of sale, at about 55s. per cwt. for good pale and 50s. for good seconds.

GINGER.—Japanese continues to be offered at 100s., but few sales are being made. Fair washed rough Cochin is 95s., and wormy 92s. 6d. Good bold rough brownish Calicut is 100s., ordinary 97s. 6d., and wormy 95s.; Calicut fine cut B 130s., and C ditto 110s.

GLYCERIN is unchanged, the Association quoting chemically pure s.g. 1.260 quality on the basis of 82s. 6d. per cwt. in 10-cwt. drums, and 90s. in 56-lb. tins in cases for contracts of five tons and upwards. Crude has become firmer of late, and British makers are expecting higher figures than those ruling. Continental crude has been relatively lower than British owing to the fall in the franc.

HONEY remains firm, and the cheapest quality of Jamaica on the spot is worth about 55s.; biscuit set is 57s. 6d., and pale set 60s. to 62s. 6d. per cwt.; palish setting Cuban is worth about 56s.

IPECACUANHA is unchanged, with spot sellers of fair Matto Grosso at 10s. per lb. Several parcels have been sold to arrive at about 9s., c.i.f. The "Andania," from New York, has brought 14 bales.

LIME JUICE.—For good raw West Indian on the spot 2s. 9d. per gallon is quoted, with supplies scarce.

MENTHOL has been in more demand for forward shipment, the sales including Kobayashi-Suzuki at 52s. to 52s. 6d. to 53s. for both January-March and March-May shipments. The spot value is 58s. 6d. to 59s. per lb. according to sellers' idea of value.

MERCURY.—Business has been exceedingly slow and there is no indication of any improvement from the continuous dragging character of the trade demand, either for home use or for export. Small lots only are wanted, but there is, on the other hand, not much stock held here, while recent arrivals were very moderate. Italy seems somewhat more inclined to offer to this market, although apparently not much disposed to cut prices. Some dealers insist on £9 15s., but £9 12s. 6d. per bottle seems a fair quotation, although it is possible that this is being shaded in some quarters.

MUSK.—Tonquin natural, Pile I, is dearer on the spot at 90s. per oz. Owing to the present disturbed conditions in China it is difficult to obtain supplies for Europe, and Paris manufacturers are buying up parcels as they come along.

NUTMEGS.—West Indian are unchanged on the spot, but there are no forward offers. Singapore and Penang prices are about 2d. per lb. above the spot parity.

OLIVE OIL.—Edible oils are quoted at from 7s. 6d. to 8s. 3d. per gallon, and pharmaceutical at 7s. 3d. per gallon, in barrels, ex wharf, London.

PEPPER is steady, with fair black Singapore offering on the spot at 5d. per lb. To arrive, the sales include March-May shipment at 4½d. per lb., c.i.f. London, f.a.q. Fair Tellicherry on the spot is 5d., and Alleppy 4½d. per lb. White Muntok is slightly easier at 7½d. per lb. on the spot, and to arrive the sales include March-May shipment at 7½d. to 7¾d. per lb. c.i.f.

PIMENTO continues quiet and unchanged at 2½d. per lb.

RUBBER has suddenly collapsed, with fully 1d. per lb decline on the week, and this fact has taken the market by surprise, as the tendency previously looked better. The collapse is due to two important factors, namely, absence of American demand and heavy liquidations of the March position. At one time the spot price fell to as low as 1s. 0½d. per lb., after a firmer closing last week at 1s. 1½d. At the close prices have recovered somewhat, and 1s. 1d. was secured for spot. The market is in such condition that anything might happen during the next few days, and a further decline would not be surprising. On the other hand, it might easily be the case that we have reached the bottom, and that America might support the market with big orders. Stocks are reduced by 400 tons. Quotations (Wednesday, 5 p.m.):—No. 1 standard crêpe and ribbed smoked sheet spot and March, 1s. 0½d.; April-June, 1s. 1d.; July-September, 1s. 1½d. Hard fine Para is weak and unchanged at 1s. per lb.

SARSAPARILLA.—Genuine grey Jamaica is steady at 2s. 3d. per lb., good Lima-Jamaica 1s. 9d., good red Native-Jamaica 2s. down to 1s. 8d. to 1s. 9d. for mixed colours; Mexican is 1s. 7d. per lb.

SEEDS.—The seed market is still quiet, with prices the same as last week. The following are spot prices:—Spanish ANISE, 75s., and Russian 62s. 6d. per cwt. CANARY SEED is a little more in demand. Mazagan has been sold at 25s. per cwt., and sellers are holding for higher prices.

CORIANDER SEED, sound Morocco 45s., wormy 35s.; CUMIN SEED, Malta 115s., Morocco 112s. 6d.; DILL SEED, 21s. 6d.; FENNEL SEED, Indian, 40s. to 45s.; FENUGREEK SEED, Morocco 24s., and Spanish 20s.; HEMP SEED, Manchurian 24s. 6d.; LINSEED, Morocco 26s. 9d.; MUSTARD SEED, English, 36s. per cwt.

SENNA is dearer, with continued depletion in supplies. No bold green leaf appears to be obtainable; small medium green leaf is 6d. to 7d., fair green small leaf 5d. to 5½d., medium brown 4½d., and common small brown 3½d. Good Tinnevely pods are unobtainable, only fair offering at 6½d., so that the run has been on flimsy Mecca pods at from 4½d. to 6d. Alexandrian pods can be had at from 10d. to 1s. 3d. as to quality; up to 1s. 6d. is asked for clean bold whole Alexandrian leaf down to 5d. for common dull siftings.

SHELLAC is easy, with sellers of usual standard TN orange quality at 290s.; fine to superfine second orange is 310s. to 380s., A.C. cakey 290s., and G.A.L. 275s. Futures are lower, the sales including March at 277s. 6d. and May at 282s. 6d. to 280s. The London warehouse stocks during last month were reduced by 2,250 cases to 12,807 cases. The landings amounted to 2,752 cases, against deliveries totalling 5,002 cases.

STARCH PRODUCTS.—Dutch farina is 21s. per cwt. on the spot, and 20s. 6d. per cwt., f.o.b. American maize starch powder is 20s. 6d. per cwt. on the spot, and dextrin is 26s. 6d. per cwt. for superior Dutch, and 25s. 6d. for No. 2 on the spot. Best rice starch crystals offer at 40s. for English and 33s. 6d. per cwt. for Continental on the spot.

TURMERIC.—No Madras or Chinese finger is available on the spot, and the price is nominal. January-March shipments have not yet been declared, and the first arrivals will probably be quoted at high prices, as the result of a bare market.

VANILLA continues extremely scarce on the spot, and prices are a matter of negotiation. A fair-sized parcel of Bourbon beans has been sold, ex France, at 46s. per lb., London terms.

WAX, BEES', continues scarce for most descriptions, imports having fallen off for a lengthy period, and buyers are reluctant to pay the higher prices asked for shipment, which are as follows: Zanzibar 118s., Benguela 120s., and Abyssinian 115s. per cwt.

Essential Oils

DURING the week star anise oil has advanced, owing to reports of short stocks at Hongkong. Japanese mint oil is almost cleared on the spot, and is at a higher though nominal value. French spike is cheaper on the spot than to arrive. Cassia and geranium oils are also firmer to come forward. Coriander oil is cheaper.

ANISE (STAR).—Reports of practically no stock at Hong-Kong have resulted in higher prices; orders of 1s. 9d. c.i.f. have been refused, and it is difficult to quote actual c.i.f. value. On the spot 1s. 11d. to 1s. 11½d. has been paid; the lower figure has since been refused. Sellers quote 1s. 11½d. to 2s.

BERGAMOT is firm to come forward at from 15s. 3d. per lb. c.i.f. and upwards as to brand. On the spot there are sellers at from 15s. to 15s. 6d.

BOIS DE ROSE (FEMELLE).—Spot is firm at from 15s. to 15s. 6d. per lb. as to seller. The price quoted in drums ex Havre is about 15s. c.i.f.

CAMPOR.—Chinese white in drums is quoted at 67s. 6d. per cwt. Japanese white is unchanged at 70s. for cases; brown s.g. 1.020 is quoted at 75s.

CARAWAY.—Cheaper offers are being made of German distilled oil, but the market for Dutch is still firm. There is only a small business passing, and agents for Dutch makers quote 37s. for crude and 38s. 6d. for

double-rectified. These prices would be shaded for cwt. lots.

CASSIA on the spot is dull, with 8s. 6d. per lb. quoted for 80 to 85 c.a. The c.i.f. price at first-hands is 8s., but 7s. 3d. c.i.f. has been paid for second-hand parcels. The spot scarcity has been relieved by arrivals in London aggregating 115 cases from Hong-Kong.

CITRONELLA.—Ceylon on the spot is unchanged at 3s. 7d. per lb., and 3s. 3d. c.i.f. Java is firm at 4s. 8d. spot, and 4s. 6d. c.i.f.

CORIANDER.—Owing to recent arrivals the spot price is lower at from 50s. to 55s. per lb., according to quantity.

GERANIUM.—Bourbon has advanced steadily at the source, the price quoted at the close on Wednesday being 320 fr. per kilo c.i.f. On the spot, holders quote from 29s. to 30s. per lb. Algerian on the spot is also quoted about the same figures.

GINGERGRASS is quiet and unchanged at 7s. 6d. per lb.

LEMON.—There is a fair range of c.i.f. prices, from 2s. 11d. to 3s. 2d. On the spot there are sellers at these figures.

PALERMO, February 23.—During January and February the export of lemon oil has been very active, the total for these months being above the average. Pressing operations are only now getting into full swing, and as the quantities produced have been barely sufficient to meet the demand, prices have advanced and, especially during the last few days, higher prices have had to be paid by people with immediate shipping requirements to cover.

LEMONGRASS.—Cochin on the spot is steady at 2½d. per oz., and 2½d. c.i.f.

LIME.—West Indian distilled is firm at 4s. 6d. per lb.; hand-pressed is steady at 7s. 6d.

MINT.—Owing to a sudden Continental demand, chiefly for shipment, the market has substantially advanced. Early in the week sales of Kobayashi-Suzuki were made at 12s. 9d. per lb. c.i.f., and 13s. 3d. was paid for afloat; also January-March and March-May shipment at 13s. 3d. c.i.f. At the close on Wednesday spot orders could not be placed. For near shipment 14s. 3d. c.i.f. is reported paid. In another direction 15s. is quoted for shipments afloat. The spot market has advanced about 2s. per lb., closing at 16s. nominal.

ORANGE.—Sicilian sweet is unchanged on the spot at 11s. to 11s. 6d. per lb. The c.i.f. price ranges from 10s. 9d. to 11s. 3d. Bitter is about 10s. 3d. c.i.f. West Indian sweet is unchanged at 9s. 6d. to 9s. 9d. per lb., and 9s. is quoted c.i.f. to arrive.

PALMAROSA on the spot is quiet and steady at 17s. 6d. per lb.

PEPPERMINT.—There has been no further spot business in American natural tin oil. The c.i.f. price is now 18s. 3d. c.i.f. in one direction.

PETITGRAIN.—Paraguayan to come forward is offered at 8s. 9d. to 9s. 3d. per lb. c.i.f. The spot range is greater, as cheap parcels have not yet been absorbed.

SPIKE.—French oil at the source is dearer at 100 fr. per kilo. On the spot there are sellers at from 7s. per lb. upwards. Some holders are not offering at present. Spanish is quiet on the spot, but steady at 5s. to 5s. 3d. per lb.

Pharmaceutical Chemicals, etc.

THE few movements in prices are mostly in buyers' favour, and the general feeling in the market is in this direction. Business has been very limited, and the tone at the close to-day was far from steady.

ACETANILIDE is offered by dealers at the slightly lower prices of 2s. 10d. to 3s. per lb., as to quality. Market steady with spot supplies limited.

AMIDOPYRIN remains very dull, with the price round about 13s. 6d. to 14s. per lb.

AMMON. BENZOATE has moved back to 3s. 9d. per lb., as quoted by dealers.

ASPIRIN.—The spot position is rather easier on the week, with dealers quoting from 3s. 7d. up to 3s. 8d. per lb., and slightly less for cwt. lots. Business has been quieter of late.

BARBITONE is seldom inquired for; quoted by dealers at about 16s. 6d. per lb.

BENZONAPHTHOL has advanced, with importers offering at about 6s. 3d. per lb.

BROMIDES.—The supplies offering seem to be plentiful, while the demand is by no means good, and the tone of the market is unsteady. So far prices are maintained, but they are far from firm. Ammonium, 8½d. to 8¾d. per lb.; potassium, B.P. crystals and granular, 7½d. to 8d. per lb.; sodium, B.P. crystals and granular, about 8½d. per lb.

CALCIUM LACTATE shows a decline in value on the week, with dealers now offering at 1s. 9d. to 1s. 11d. per lb.

CHLORAL HYDRATE continues to vary on spot, with some isolated lots said to be offering at cheap rates. The average quotation is in the region of about 3s. 9d. per lb. for duty-paid crystals.

CITRIC ACID (B.P. crystals).—The position continues to hold at the slightly better prices recently recorded, and the undertone is firm. Actual business has not been of any great volume. Prices are in the region of 1s. 5½d. per lb., less 5 per cent.

CREOSOTE.—B.P. shows a slight decline in value, with dealers quoting from 2s. 3d. to 2s. 4d. per lb.

CREOSOTE CARBONATE is seldom inquired for and is quoted at the nominal figure of 6s. 6d. per lb.

EMETINE SALTS.—Makers have advanced their prices and now quote the pure alkaloid at 3s. 8d. per gram; hydrobromide is 1s. 11d., and hydrochloride 2s. per gram; emetine bismuth iodide is 42s. 6d. per oz.

GUAIACOL CARBONATE remains dull, with prices in the region of 13s. per lb.

HEXAMINE is offering at somewhat cheaper rates this week, with holders asking 3s. 10d. for large quantities and 4s. per lb. otherwise.

HYDROQUINONE is irregular on quotation, some offers still being up to 3s. 9d. per lb., but most business of any size would be well below this figure.

METHYL SALICYLATE.—Dealers' prices are well down to 2s. 9d. per lb., and it is possible that good orders would be accepted at slightly less.

METHYL SULPHONAL is rather firmer and dealers are now asking up to 23s. per lb., with not much available.

PARAFORMALDEHYDE from dealers is available at level prices of 3s. 6d. to 3s. 9d. per lb., with only occasional small business being done.

PARALDEHYDE is freely offered at about 1s. 6d. per lb., and good-sized orders might be placed at a shade under this figure.

PHENACETIN.—The spot position has weakened and dealers are now quoting down to 6s. 9d. per lb. Business has been slow and the market is unsteady.

PHENAZONE.—The market keeps fairly steady, although not so firm as last week. Dealers' prices are at about 7s. 9d. per lb.

PHENOLPHTHALEIN is cheaper, being offered by dealers at 7s. 3d. to 7s. 6d. per lb., with the demand quiet.

POTASSIUM PERMANGANATE (B.P.).—The lower prices of British make mentioned last week are on the market with good business being done; 7½d. to 8½d. per lb. is quoted.

POTASSIUM SULPHOGUAIACOLATE shows little life; dealers' price is unchanged at about 6s. to 6s. 6d. per lb.

PULV. SEIDLITZ is cheaper, English makers quoting 63s. 6d. per cwt. for 5-cwt. lots of B.P. in one delivery.

QUINIDINE.—Makers have advanced their price of pure to 3s. 9d. per oz. in bulk, and to 4s. in small lots. Quinidine sulphate is also dearer at 2s. 9d. to 3s. per oz.

RESORCIN seems steadier after the recent decline in values. Dealers quote at 5s. 9d. to 6s. per lb.

SALICYLIC ACID.—This market has weakened, with dealers' prices now down in the region of 2s. 2d. per lb. British make is 2s. 1d. per lb. for quantities.

SALOL from dealers holding spot supplies is now quoted in the region of 4s. per lb., with business quiet and the market unsteady.

SODIUM BENZOATE continues to find fair business and the price shows no change on the week at about 3s. to 3s. 3d. per lb. Supplies are more plentiful.

SODIUM DIETHYLBARBITURATE from dealers is quoted at the nominal rate of 17s. per lb. on an idle market.

SODIUM SALICYLATE.—The spot position is easier this week and dealers are offering B.P. crystals at a shade

under 2s. 9d. per lb. Powder is from 2s. 9d. to 2s. 10d. per lb.

SULPHOCARBOLATES are cheaper, B.P. sodium offering at from 1s. 2d. to 1s. 5d. per lb., and B.P. zinc at from 1s. 4d. to 1s. 6d. per lb. for crystals, and 2d. more for powder.

SULPHONAL is cheaper at 16s. 6d. to 17s. per lb., but still in little or no demand. German makers' price is 25s.

TARTARIC ACID (B.P. crystals).—The spot position keeps fairly steady at the improved prices recently recorded. Business, however, is still rather restricted, but inquiry is on the market. Quotable at about 1s. 1½d. per lb., less 5 per cent.

TERPIN HYDRATE holds quite steady on spot at the level rate of 1s. 9d. per lb.

VANILLIN is quoted at from 25s. to 26s. per lb. for 100 per cent.

Industrial Chemicals, etc.

London, March 5.

A VERY poor week of business is recorded, and the few changes in prices are generally in buyers' favour. Continental offerings, especially those from Germany, are moving upwards, and this source is gradually failing in competition for home trade business.

ACETIC ACID has been in small demand over the last week or so, but with spot stocks limited prices are maintained and the market steady. 80 per cent. technical, about £47; 80 per cent. pure, about £50, in casks; 98 per cent. glacial, in glass demijohns, about £70 per ton, ex wharf, London.

ACETONE has met with a small demand, with dealers' price steady in the region of £116 per ton for B.G.S., in drums.

AMMONIA ALKALI (53 per cent. light alkali) continues to be quoted by British makers at £6 15s. per ton, in bags, for home trade only.

ARSENIC.—The market position is very obscure and still inclined to weakness, this being due to somewhat freer and more numerous offers of Cornish, the output of which has certainly been making important headway of late. First-hand offers are reported at about £62 per ton, f.o.r. Cornwall, and delivery London could be secured at about £64 to £64 10s.

BARIUM CHLORIDE is rather cheaper, with dealers selling a few small spot lots at between £14 and £14 10s. per ton for 98 to 100 per cent.

BLEACHING POWDER remains in very small request from dealers, whose offers are still at £10 to £10 10s. per ton for 35 to 37 per cent. chlorine.

COPPER-SULPHATE.—Export business has certainly not been very active, and the placing of orders near the current comparatively low level, or between about £24 10s. and £25 per ton, f.o.b., for casks, is said to be possible with certain makers. It is, however, noticeable that makers are in some cases asking over £25.

CREAM OF TARTAR shows no change on the week. Dealers' prices are steady at 83s. to 85s. per cwt., according to quantity. Business has again been on a small scale.

EPSOM SALT of commercial quality is rather easier on spot, being mentioned from £5 5s. to £5 10s. per ton, in bags, with sales slow.

FORMALDEHYDE is quite steady, but of little interest for some time past. Importers' price is close up to £62 per ton for 40 per cent. volume.

LEAD ACETATE.—Still firmer conditions are reported on spot owing to advances on the Continent. Spot: brown, £44 15s. to £45; white, £45 15s. to £46 per ton.

LEAD-PRODUCTS.—Strong features have developed, home manufacturers' quotations having been again advanced in most directions, due to the formidable rise in the price of metal. Quotations for red lead and litharge were advanced again lately, being at £51 for home use and export. White lead in oil is also dearer at £56 15s., and dry white lead stands at £50 10s., f.o.b.

LITHOPONE is steady and spot holders are firm at about £23 per ton for 30 per cent. Continental red seal.

PERSULPHATES.—Ammonium 95 per cent. is quoted at 175s. per cwt.; 98 to 99 per cent. ditto, 185s.; potassium, 97 to 98 per cent., 95s.; and sodium 85 to 95 per cent., at 240s. per cwt., in casks, ex wharf, duty paid.

POTASH CAUSTIC.—Spot business has been very limited and dealers are finding some difficulty in obtaining their quoted prices of £31 to £31 10s. per ton for 88 to 92 per cent. solid, in drums.

POTASSIUM CARBONATE.—Following on the considerable reductions in prices notified last week dealers have made a

further cut in their prices, but so far there has been no material improvement in the volume of business transacted. The market is still rather unsteady. 90 to 92 per cent., about £24 to £24 5s. per ton; 96 to 98 per cent., about £26 to £26 10s.

POTASSIUM CHLORATE is unchanged as offered at 2½d. to 3d. per lb. for quantities.

POTASSIUM PERMANGANATE of British make (commercial quality) is now quoted at about 7½d. per lb., but it is understood that actual business for good-sized lots is at an even lower figure.

POTASSIUM PRUSSATE.—Dealers continue to quote British yellow at 8½d. per lb., but sales are only for small parcels.

SAL AMMONIAC.—Dealers have been doing fairly well and their prices are maintained on a steady market; dog-tooth crystals, £45; medium, £40; fine white crystals, £27 to £27 10s. per ton.

SODIUM ACETATE is rather firmer and spot material is at about £24 to £24 5s. per ton.

SODIUM BICHROMATE continues to be offered by British makers at about 4½d. per lb. for home trade.

SODIUM HYPOSULPHITE.—Dealers offering Continental are finding business slow and small. Their prices are unchanged and are supported by the position on the Continent. Pea crystals, £15 to £15 5s. per ton, in 1-cwt. kegs; commercial quality, £10 to £10 5s. per ton, in casks.

SODIUM PRUSSATE has met with small business only, with dealers offering British round about 5d. per lb.

SODIUM SULPHIDE.—There is practically no inquiry at the moment and prices are unchanged. 60 to 62 per cent. solid, £15; broken, £16 per ton, in drums.

COAL-TAR PRODUCTS, ETC.—Pitch is quoted at a high figure, but it is doubtful if any actual business has been done at this rate. Other products are about level on the week, with the market fairly steady but very quiet. ANILINE OIL remains dull, with British makers' prices unchanged at 7½d. to 8½d. per lb., naked, at works. ANILINE SALT is also in little request and quoted by British makers at 7½d. to 8d. per lb., naked, ex works. BETANAPHTHOL remains quiet, with the price easy at 1s. 1d. per lb. TOLUOL.—Pure, 1s. 8d. to 1s. 10d.; 90's, 1s. 4½d. to 1s. 7d. per gallon. British makers continue to quote at these rates. XYLOL.—Pure, 3s. 3d.; commercial, 2s. 3d. per gallon; makers' prices are level on the week. CREOSOTE OIL is steadily maintained, with some business being done. Dealers quote 8½d. to 9d. ex works and 9½d. to 10d. per gallon, f.o.b. CARBOLIC ACID crystals hold at their recently improved prices of about 8d. to 8½d. per lb. for 39° to 40° C. crystals in large-bulk packing, and a fair inquiry has been dealt with. CRESYLIC ACID is very steady, with the price unchanged at 1s. 11d. to 2s. 1d. per gallon for 97 to 99 per cent. NAPHTHALENE at the recently lowered price of about £16 per ton has been inquired for a little more. PYRIDIN is maintained at last week's better price of 15s. per gallon. HEXAMETHYLENE remains in poor sale and dealers' price of 3s. 9d. per gallon is not firm. PURE METHYL ALCOHOL continues to be quoted in the region of £80 per ton, but large business would no doubt be accepted at less. PITCH.—The price quoted to-day is 70s. per ton, f.o.b. East Coast, showing an advance of ten shillings on the week. About the only life in the market is a certain amount of speculation going on between dealers. The price quoted is nominal. WOOD TAR remains steady at £4 15s. to £6 per ton, according to quality.

Fixed Oils, etc.

ACTIVITY in these products has not been quite so good of late and the few movements in prices are mostly towards cheaper prices. Castor oil continues to advance and is scarce. Palm oils are also bright, and linseed has weakened considerably. ACID OILS keep steady with prices about level and supplies short. Coconut and palm kernel, 42s.; groundnut, 38s.; soya, 37s. 6d., all spot. CASTOR continues to advance and the market is very firm. Pharmaceutical, 70s.; first pressings, 65s.; second pressings, 64s., in barrels, ex mills, in not less than one-ton lots; cases of 2 or 4 x 40-lb. tins 4s. per cwt. extra. COCONUT keeps fairly steady, but there is still but little business doing. Deodorised, spot, 55s.; Ceylon, 47s., c.i.f.; Cochin, 59s., c.i.f. COTTON has been quiet throughout and prices show a decline for all grades. Deodorised, about 54s.; common edible, 52s.; soap-making, fairly active, at about 49s.; crude, 45s. 6d., all spot. GROUNDNUT continues firm and unchanged. Deodorised, spot, 61s.; crude Oriental, 56s., c.i.f. LINSEED (raw, naked) during the past week has undergone a big change and prices for all positions, especially for spot and near at hand, show a considerable decline. The market was quiet and nervous at the close. On spot, 42s. 6d.; March, 40s.; March-April, 39s. 3d.; May-August, 37s. 3d.;

September-December, 37s. Hull: On spot, 40s.; March, 39s.; March-April, 38s. 6d.; April, 38s.; May-August, 38s.; September-December, 37s. 6d. PALM KERNEL advanced early in the week, but the market has been much quieter and closes unsteady. Deodorised, 49s. 6d.; crude, 45s. 3d., all spot. PALM.—Spot values are fully maintained, with a good business. Lagos, 41s.; softs, 40s. 6d.; mediums, 39s. 9d.; hards, 38s. 9d.; bleached, 43s. 6d., all spot. RAPE.—The dull tone reported last week has continued; values are unchanged. Refined, 54s.; crude, 51s., all spot. SOYA.—Last week's lower rates are maintained on a very quiet market. Deodorised, 50s. 6d.; crude, 47s. 6d., all spot. TURPENTINE has been very quiet throughout and closes easier, holders of spot spirit not being inclined to press sales. The London spot market closes at 77s. 3d. and March-April 77s. 9d. per cwt. The quotation at Savannah has been, in fact, more than maintained on balance. The deliveries last week were certainly rather poor, totalling only about 910 barrels, including 250 barrels of French, of which further quantities went into stock. The total stocks were returned at about 23,000 barrels of American and 1,000 barrels of French. WOOD.—Hankow has been in little request and is quoted at 94s., in barrels.

LUBRICATING, MINERAL AND BURNING OILS, ETC.—The few changes in the spot position are upwards, due to shortage of spot supplies and firmer conditions for shipment. Business generally has been fair, and the tone is quite steady. BENZOL.—British makers' prices are unchanged. There is a rumour that the price of petrol is going to advance again. This would affect the price of benzols. Crude 65's, 10½d. to 1s.; standard motor, 1s. 4½d. to 1s. 6d.; pure, 1s. 8½d. to 1s. 10d. per gallon, ex works, in tank wagons. BURNING OILS.—Crude No. 3, 8½d.; No. 2, 8d. per gallon, barrels free. FUEL OIL.—Prices are fully maintained on a firm market. 895 to 910 gravity, £4 12s. 6d.; 950 gravity, £3 17s. 6d. per ton, ex tank. PARAFFIN WAX AND SCALE.—Wax is firm and in short supply at higher rates of from 3½d. to 4½d. per lb., according to melting point, in bags. Scale has also moved up and is now quoted at about 3d. per lb., ex wharf, London. SOLVENT NAPHTHAS hold at last week's better rates, with some business passing. 90 to 160 and heavy 90 to 190, 1s. 2d. per gallon. PARAFFIN OILS.—Market still firm. American standard white, 1s.; water white, 1s. 1d. per gallon, barrels free; Russian prime white kerosene, 6½d. to 7d. ex tank, 7½d. buyers' barrels, filled free, 9½d. per gallon, barrels free, ex wharf, London. PETROLEUM JELLIES.—Prices show further advances with the market firm. Snow white, £62 10s. to £67; amber and yellow, £24 to £28; red vet, £22; dark stiff green, £19 7s. 6d., ex wharf, London. SPECIAL OIL for Diesels and motors, 10d. per gallon, barrels free. WHITE OILS.—Prices are very firm. Special No. 1, £45; No. 1, £39; No. 3 half-white, £31 per ton, in free drums; pale yellow, £21 per ton, ex wharf, London. LUBRICATING OILS.—Spot values are unchanged on the week, with the tone very steady. There is some indication of stronger conditions in the shipment market, and this may affect the spot position. Pales, £12 10s. to £27; reds, £14 10s. to £27; dark cylinders, £17 to £33; filtered cylinders, £22 10s. to £34; blacks, £8 to £15 per ton, ex wharf, London, less 2½ per cent. SOLUBLE OIL is level on the week at £21 to £25 per ton, net. No. 1 RUSSIAN OIL is dearer on the week, with the quotation now standing at £18 17s. 6d. per ton, less 2½ per cent., ex wharf, London. Good business has been done.

Vanilla Market Report

E. Guillevie & Co. in a circular draw attention to the position of the vanilla market and give reasons in justification of the present high market quotations. The world's consumption, they say, amounts approximately to 600 tons of Bourbon, Comores and Madagascar descriptions, and this consumption increases steadily every year. On the other hand, the Islands, which up to a few years ago produced up to 750 tons, have seen their production considerably decreased during the last two years owing to drought, and this year their yield has been under 450 tons. There is therefore a shortage of about 350 tons compared with the production of normal years, and a deficiency of 150 tons under the requirements of the world's consumption. The position has been rendered still more critical owing to the fact that in September last the new season was entered without any stock, whereas in previous years there has always been stocks amounting to about 100 to 150 tons at the beginning of the new crop. The fact must also be taken into consideration that Tahiti, which has supplied up to 250 tons in years past, did not produce more than 70 tons last year. There are now no large stocks left with the growers, importers or merchants, and no lower prices may be anticipated before September-October next.



Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

Alchemy

SIR,—As one of those interested in the history of chemistry, I was glad to notice the remarks in your issue of February 2 (p. 151) on Redgrove's "Alchemy, Ancient and Modern" (Second Edition). While the article on Alchemy, which appeared in THE CHEMIST AND DRUGGIST for June 25, 1921 (pp. 877-884), gave much valuable information on the subject, I think your reviewer cannot be serious when he suggests that the author does not tell us more about alchemy in this standard book of 160 pages than was contained in the very brief survey by Bell. Redgrove's book, for the first time, so far as I am aware, indicates the psychological origin of the underlying assumptions of the alchemists, and I do not agree that the space (eight pages) given to such impostors as Cagliostro and Kelly is excessive. A history should be inclusive, therefore mention must be made of these men, their work and influence. Dee was not an impostor, but a learned man. He was the first to give free and public lectures on Euclid's Elements in any university in Christendom. In some matters, as Redgrove suggests, he was probably duped by Kelly. I have also failed to find any attribution of a mystical interpretation of alchemy by Jacob Boehme in the book. What Boehme did was to use alchemical terminology to expound his own mystical philosophy. The same applies to Vaughan.

Yours faithfully,
GERALD DRUCE, M.Sc.(Lond.).

Balham, S.W.

Optical Societies

SIR,—In reply to the query raised by your correspondent "Yorkshire" in your issue of March 1 (p. 322), each member of the executive of the Joint Council of Qualified Opticians has passed one of the two recognised Qualifying examinations, and in most instances has passed both of them. Each of the 2,500 members on the register of the J.C.Q.O. has passed one or both of the two Qualifying examinations, with the exception of three or four dispensing firms who have agreed not to undertake sight-testing.

Yours truly,
J. H. SUTCLIFFE, Registrar.

London, E.C.4.

Sale-and-Return Patents

SIR,—"Xrayser II," if his remarks in the last paragraph of p. 305 (C. & D., March 1) are intended to cover the new Kruschen offer, is in this case "barking up the wrong tree." The new Kruschen sizes (6d., 1s., 1s. 9d.) will cater for every possible class of customer and will be good stock. I was only too glad to get them, for I had been urging the new sizes on makers for three months. They took the right way to prevent congestion of orders, I think. Lots of men will agree, and doubtless, like me, have already asked for more. You have to watch patents carefully if you are to anticipate public demand to-day. Many over-priced patents will have to do as Kruschen has done. Wages of workers have fallen, but the desire remains, and can be retained at about a shilling.

Yours, etc.,
JAY MACK (3/3).

SIR,—As to the 6d. and 1s. sizes of Kruschen salts: no doubt the proprietors know their own business best, but their reason for putting these two smaller sizes on the market is, to my mind, a very poor one. In their latest communication to myself Messrs. E. Griffiths Hughes say: "The introduction of smaller sizes of

Kruschen salts was absolutely necessary, as so many chemists were breaking bulk and selling 1-oz. packets loose out of the 1s. 9d. bottles." Well, all I can say is that a chemist who is so hard up for trade as this ought to retire, or go on the "dole." My business is in a poor-class district, but I would as soon think of forgoing my reading of the C. & D. as open a 1s. 9d. bottle of any proprietary to sell 6d. worth. I duly received 1 doz. 6d. Kruschen salts and 1 doz. 1s.: this was the first intimation of the advent of these two sizes. Although I am not in favour of this sort of business as a rule, I knew there was no risk of their not selling. As a matter of fact, the 6d. size went in two days, but no 1s. or 1s. 9d. sizes during the same period. . . . Under date January 18, 1924, I received a communication from the proprietors offering a bonus of 1 doz. 1s. 9d. size, provided one gross of the same size was ordered, and a cut-out of "Grandpa sliding down the banisters" was exhibited for fourteen days. Having plenty of stock, I did not order, but I have had conversation with pharmacists who did, and they feel very sore that not a word was said about the introduction of the new sizes, although these latter must have been mooted then. The result is that they have to order a very large proportion of 6d. and 1s. sizes to pick up the maximum discount of 30 per cent., or overstock themselves with the 1s. 9d. size. Our great British public will now be able to obtain that "Kruschen feeling" for 6d., and will not venture their 1s. 9d. I have no personal feeling at all in the matter, and we must all admire the forceful and persistent advertising which has brought Kruschen salts right into the front rank of rapid selling (and profitable to handle) proprietaries. . . . Before we finish with Kruschen, might I ask for the experience of other pharmacists? I have had three bottles returned, with a complaint of two turning the tea black, and the third with the blackness, plus a bitter taste. I must give credit to Messrs. E. Griffiths Hughes in that they take back any bottle complained of, and add to credit the cost of postage; but they evade the question as to whether their proprietary should darken tea. . . . Finally, I note that 30 per cent. is the maximum profit on Kruschen salts. This is not quite so good as the 33½ per cent. on the old (one and only) size. I have always understood that the packing of smaller sizes is expensive *pro rata*; still, are we not pharmacists, and, as such, grateful for small mercies?

Yours faithfully,
A. W. CORNISH.

Bristol.

Rubber Hot-water Bottle Troubles

SIR,—We were very interested in the letter from Mr. C. W. Brumwell, Worthing, in your last issue (p. 322), as for over forty years we have had the privilege of supplying pharmacists with hot-water bottles, and also send out some every working day each year. Ill usage accounts for the majority of faults which occur with British hot-water bottles. The "keeping hot" and "warming up" of rubber bottles by the fire or upon a gas range is frequently adopted by the maid without the knowledge of her mistress. The pharmacist is then confronted by the aggrieved customer, who is prepared to mortgage her future by the assertion that the bottle has not been subjected to external heat; always receives a cup of cold before the hot water is put into the bottle; and is then only filled two-thirds with hot, not boiling, water. The pharmacist generally falls at this assault, and looks to his wholesaler to help him by replacement without charge. Bottles should be sold in covers for two reasons—that of protection to the bottle and greater comfort to the user when the contents are either hot or cold. While seamless bottles were generally required by the American for one winter's use only, we have found that numbers of British bottles of good quality have given five winters' use if they are reasonably treated.

Yours faithfully,
HOOPER & Co.,
H. C. Allen, Director.

London, W.1.

Insurance Dispensing

SIR,—Mr. Corral's breezy letter (*C. & D.*, March 1, p. 321) makes amusing reading with a good deal of serious fact behind it. It deals with details. The pharmacists' life is one mass of details; he studies them, is examined in them, earns his living by them, and sooner or later is prosecuted on details; and unless we can get a legal recognition that the molecule of the pharmacist's detail is not quite so microscopic as the atom of the analyst's detail, we shall have no rest. With regard to the agitation for a revision of the spoonful measure, I think that Mr. Corral is falling into the error he decries in the earlier part of his letter. Does he wish to get a legal recognition of 3j. and 3ss. as teaspoon and tablespoonful respectively? If he does, then we are in for more work. It is not infrequent to receive Insurance scripts for syr. hypo. co. 5vj. or 5xij, teaspoonful doses; accordingly we should have to measure the syrup into the container one drachm at a time and mark the paper carefully pasted on the bottle. How would Mr. Corral like to do it—at N.H.I. rates, anyhow? He wouldn't. I thought not.

Yours faithfully,
CONSISTENCY (3/3).

SIR,—“Lancashire” (*C. & D.*, March 1, p. 321) writes that the action of the Retail Pharmacists' Union, in regard to labels having such words as “national dispensers,” is an interference with the liberty of the subject; I think so too, and think that they should leave the matter alone. However wrong the impression may be, there is a distinct public attitude that the service is in the nature of a charity; and anyone who chooses to plaster their bottles and packets with a reminder that the medicines contained therein are supplied under the Act is at liberty to do so. I do not, and the private customer and insured person both receive from me the same style of bottle and label. With reference to advertisements on windows, etc., is there not, or was there not, originally a clause in the contract which required a notice to be displayed stating that Insurance medicines were dispensed?

Faithfully yours,
SEMPER EADEM (1/3).

Applicants' Testimonials

SIR,—As an occasional advertiser for assistants in your journal, I would like to put before those who apply for positions the importance of following your recommendation not to send original testimonials. It takes a prospective employer several days to sort out and communicate with the most likely applicants, and during this time those who have sent original testimonials with their applications are naturally anxious about them. Personally, I am very little influenced by written testimonials, and I am guided in my selection mainly by the neatness and business-like letters of those who reply to the points asked for in my advertisement. I am, again, influenced by the way the envelopes are addressed; and when, as is frequently the case, a large number of replies are received, it is my practice to select for first perusal well-addressed and neatly written envelopes, which almost invariably contain an application of the same character. Many applicants write such badly composed and badly written letters that their applications cannot receive consideration by any employer who is insistent upon neatness in his business.

Yours faithfully,
EMPLOYER (5/3).

The Chemist in Fiction

SIR,—Your contributor to page 152 of your issue of February 2, writing of Miss May Sinclair's novel, “The Combined Maze,” remarks that the only relapse from verisimilitude is the illiterateness of young Ransome. . . . In a little tale in a recent issue of the “Daily News,” by George Morrow, Percy Jones and Albert Smith, close friends and both under twenty, are both apprenticed to the same firm of wholesale druggists in

the early 'nineties. They are up in the gallery at the old Gaiety. “Funny thing, Bert,” said Percy, “wot a lot of bald 'eads you see in the stalls. I suppose” (this is a slip—the author should have written “s'pose”), “when we ain't got any 'air on our 'eads, you an' me will be down there.” The years pass, and Percy is married to a woman of his own level. She, at any rate, is guilty of saying “s'pose”! They are in the front of the gallery at a West-End theatre, and Mrs. Percy would like to be “sitting down there in the stalls.” “Anything else,” grunts her husband, “dinner at the Ritz, and go in our Rolls Royce to the Berkeley?” Percy has been looking down at the people in the stalls and grows reminiscent. “Years and years ago, Alice, I 'ad a chum—you 'ave 'eard me speak of 'im. We was both serving our time in Crowden & Thumpitts—'e used to say that 'im and me would be lolling in the stalls when 'we come to 'ave shining bald 'eads.” But lucky Bert has gone up since then old days—invented a liver pill. “Made pots of money 'e 'as; I 'aven't seen 'im to speak to for twenty years.” But looking down again through a pair of glasses Percy sees “'is old pal Bert,” and points him out to his wife. I suppose this must be if Mr. George Morrow says so, but in fifty-five years—part wholesale—I have never met this kind of man. What would authors do without the liver pill and dope stunt?

Nottingham.
Yours, etc., J. PIKE.

The Multiplicity of Meetings

SIR,—The overlapping of the old associations and the new branches is in evidence again, and I am afraid we have not seen the end of the difficulties. Both at Bradford and Hull (*C. & D.*, February 2, p. 153) resolutions were put forward to wind up the respective associations on this account, and in other districts, my own for one, the associations seem simply to have faded out. Judging by the attendance at the meetings I have been to, the branches are at present no more successful than the associations, the bulk of the members never troubling to turn up. As the associations were open to any pharmacist, whilst the branches are restricted to members of the Pharmaceutical Society, I can foresee complications. The idea, of course, is to compel people to join the Society, but there are some who have their reasons for not doing so, and such may be ultimately lost to both parties. At any rate, something will have to be done sooner or later to overcome the multiplicity of meetings; most neighbourhoods have three district bodies, and some more (at Hull it was stated there were five separate organisations), and a busy pharmacist cannot possibly turn up at them all.

Yours faithfully,
MEMBER OF ALL (5/2).

Subscribers' Symposium

For interchange of opinion among “C. & D.” readers and brief notes on business and practical topics.

Adhering to Advertised Prices

Pharmacists in business have complained that some firms reduce prices without notice, so it is only fair to uphold the conditions when a time margin is allowed to reduce stocks. There are, unfortunately, some retailers who do not adhere to this, but lower their price at once to attract custom; such cutters, though in the minority, may spoil a concession which most of us appreciate.—*Concessionaire* (1/3).

Pilula Phosphori

In the first place I have to apologise to you, Mr. Editor, for not reading the *C. & D.* carefully; secondly, to Mr. Knott for not having previously seen his paper; thirdly, to his defender for the rightful necessity of calling attention to the matter; and to myself for having by such inadvertences given myself a considerable amount of time, trouble and thought by way of experiments, which extended over a period of about three months.—*Abel Scholar*.

Dispensing Difficulties and Notes

Developing an Odour

SIR,—Could you give me the reason for the following mixture developing the taste and smell of essential oil of almond after about twenty-four hours?

Vin. ipecac. ...	...	...	3j.
Spt. æth. nit. ...	...	...	3ij.
Syr. codein. phos. ...	...	...	3iij.
Aq. anisi ...	...	ad	3ij.

Yours truly,

T. C. E. (29/1).

[While we have not, so far, obtained the smell of essential oil of almond in the mixture, we can readily suppose that traces of anisic aldehyde may be produced by the oxidising action of spirit of nitrous ether on anethol. Anisic aldehyde possesses a fragrant odour, and suggests the aroma of essential oil of almond. Anethol and benzaldehyde are not very remotely related in their chemical aspects.]

A Calcium-lactate Mixture

SIR,—Will you suggest the best method of compounding the following mixture?

Calci lact. ...	...	...	3ij.
Tr. hyoscyami ...	...	...	3iss.
Liq. strych. hyd. ...	...	...	℥xv.
Syr. glycerophos. co. B.P.C. ...	...	...	3ij.
Aq. chlorof. ...	...	ad	3viij.

Faithfully yours,

WHITEHOUSE (3/2).

[There is no need to worry about the compounding of this mixture. To get the ingredients together and shake them up is all that is required. Normally one would place the tincture of hyoscyamus, solution of strychnine hydrochloride and compound syrup of glycerophosphates in a bottle, and add to them the calcium lactate rubbed down with the chloroform water. To dissolve the calcium lactate in hot water is bad practice, calcium salts being more soluble in cold water than in hot. There will be very little reaction in the mixture, none of the acid radicles being very aggressive towards bases other than those with which they are combined. Glycerophosphates have a tendency to produce a "stringy" condition in mixtures in which they are contained. The mixture is quite unsuitable for keeping for a month. The white deposit was no doubt some calcium lactate.]

Legal Queries

T. H. B. (29/2).—"BLOOD TONIC" is a dutiable title under the Medicine Stamp Acts.

C. F. (1/1).—The label "Cough Sedative" would render the preparation to which is attached liable to medicine-stamp duty.

A. F. (21/2).—The title consisting of your initials and the words "Tonic Tablets" is not a dutiable one under the Medicine Stamp Acts.

P. D. S. (19/2).—THE LIVER SALT OR HEALTH SALT, if a saline, is exempt from medicine-stamp duty under the mineral waters' exemption.

Manxman (27/2).—Full details of the sale of cocaine eye-drops have been given in the *C. & D.* recently, notably the issues for January 12 and 19.

H. R. C. (2/3).—The labels you send (except the "Compound Purifying Mixture") would render the preparations to which they are attached liable to medicine-stamp duties.

P. G. (26/2).—The title "Photographic Chemist" used by a person not registered as a chemist and druggist in connection with an open shop would be an infringement of the Pharmacy Act, 1868.

A. H. S. (25/2).—Entire drugs are not subject to medicine-stamp duty even if recommended for ailments. It is advisable to state on the label that the article is a pure drug. If perfume, colour or diluent is added the article is not an entire drug.

A. P. C. (28/2).—If the rheumatism pad is a medicated appliance it would appear to be liable to medicine-

stamp duty. It would be necessary, however, to submit the completed pad and all advertising matter before a definite opinion could be given.

H. T. L. A. (3/3).—There is no such thing as a medicated wine licence. If, however, when granted a wine licence, you agreed to sell only certain articles you will have to confine your sales to those goods. Wines which are really medicinal can be sold without a wine licence.

Company (29/2).—No director or superintendent under the Poisons and Pharmacy Act, 1908, can become the responsible person for a similar position in another company at one and the same time. The fact that he is superintendent has to be notified to the Pharmaceutical Society.

B. T. (3/3).—An estate has been left upon trust for the widow of the testator for life. Part of the estate consists of leasehold property. Is it permissible to charge the cost of repairs and painting wholly or in part against capital or must it all be charged against income? [The answer depends entirely upon the terms of the trust and the nature of the repairs. It is probable, however, that the cost of all ordinary and decorative repairs must be charged against income. A solicitor should be consulted.]

Early Closer (1/3).—The Shops Acts provided that, on their weekly half-holiday, assistants must be off the premises by 1.30 p.m. Does the law also require that they shall leave the shop not more than half-an-hour after the evening closing hour? [The Acts do not require that an assistant shall leave off work at any particular hour on days other than his weekly half-holiday. Hence, although the shop must be closed in the evening at the hour fixed for the district, assistants may be employed later if necessary.]

A. A. (3/3).—The pulv. ipecac. co. in the prescription you send being mixed in the proportion of 1 in 4, is, according to the Home Office, within the Regulations of the Dangerous Drugs Acts. It is an arguable point whether you should add to the weight of material the weight of the cachet, but it is not a very convincing point, since the powder can readily be withdrawn from the container. The cachet is not part of the nature of the powder. There is much greater potency in the argument that mixing pulv. ipecac. co. with another medication does not bring in within the Dangerous Drugs Acts.

W. E. A. C. (28/2) states that in his town the early-closing day is Wednesday, and a closing order has been made requiring shops to close at 8 p.m. on Saturdays and 7 p.m. on other days. If he closes on Saturday afternoon instead of Wednesday will he be allowed to keep his shop open until 8 p.m. on Wednesday? A girl does a few hours' work weekly for "W. E. A. C." in her own home. Must she be insured under the National Health and Unemployment Insurance schemes? [The shop will have to be closed at 7 p.m. on Wednesday in any event. If the girl is not under sixteen and there is a contract of service between her and "W. E. A. C." she must be insured under both schemes. If, however, the girl does the work at her own convenience and is not subject to "W. E. A. C.'s" directions she is, in effect, not an employee at all, but a contractor.]

S. I. P. (28/2) sold his business on January 1, and at the same time paid the six months' instalment of his income-tax due for current year. His income was derived from private investments and shop property, as well as from the profits of his business, and he wishes to know if he can claim abatement from the fact that he has gone out of business three months before the close of the tax-year. [Yes. In so far as the income consists of trade profits, the tax on this is to be apportioned between "S. I. P." and whoever succeeded him in the business. It is the duty of the local inspector of taxes to certify the fact of the change in the ownership of the business to the General Commissioners within four months of April 5 next, upon which the amount which each has to pay for the year will be fixed. The inspector should be written to informing him when and to whom the business was sold.]

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

Red Lichtie (11/2).—GAS-IGNITING COMPOSITION.—These consist of a cap containing platinum black or similar material such as gelatinous alumina steeped in alcoholic solution of platinum tetrachloride and dried at 120° C. When a jet of gas is turned on to these materials they become incandescent and the gas ignites.

Salol (13/2).—The Educational Number of THE CHEMIST AND DRUGGIST (August 11, 1923) gives particulars of the qualifications for dispensers. The Apothecaries' Assistants' examination is of secondary importance compared with the Qualifying examination of the Pharmaceutical Society. Many women pass the apothecaries' examination, but only a small proportion obtain situations afterwards.

H. B. (23/2).—DENTAL SUCTION POWDER.—Slippery elm bark is a cheaper dental-plate suction powder than tragacanth, but not so effectual.

C. J. H. (22/2).—BONE SUBSTITUTE.—The material of which the shield is made is galalith, or some similar casein composition. The manufacture can only be carried on economically on a large scale. An outline of the manufacture was given in the *C. & D.*, 1919, pp. 1424 and 1520.

F. S. (19/2).—WORM POWDERS FOR CHILDREN.—"P.F. 26."

Pulv. rhei	...	...	...	5j.
Pulv. jalape	...	...	...	5j.
Calomelanos	...	...	...	5ss.

Mix.

Dose: One year, 4 gr.; two to three years, 5 to 6 gr.; three to five years, 6 to 7 gr.; five to seven years, 7 to 8 gr.; seven to eight years, 8 to 10 gr.

P. C. (21/2).—AEROPLANE "DOPE."—The formula for this is as follows:—

Tetrachlorethane	...	...	44	c.c.
Carbon tetrachloride	...	...	12	c.c.
Acetone	...	...	24	c.c.
Alcohol	...	...	20	c.c.
Cellulose acetate	...	...	6.6	grams.

Dissolve.

G. V. T. (21/2).—ANTHELMINTIC FOR PIGS; without santonin:—

Ferri sulph.	...	...	...	5ss.
Sulph. flor.	...	...	...	...
Pulv. arceae	...	...	aa.	5j.
Antim. tart.	...	...	gr. v—x.	...
Sodii chlorid.	...	...	5j.—iv.	...

Fiat pulv. To be given daily on an empty stomach for six days.

R. K. K. (19/2).—REMOVAL OF TUMOUR ON HORSE.—If the tumour cannot be removed by a tight ligature, the animal must be cast and the growth removed by means of an ecraseur, to be followed for some time by the application of a caustic, such as argent. nit., ac. arsen. or hyd. perchlor. To allow tumours to grow to any size is gross carelessness of the owner, as they are easily removed when small, and there is not so much pain, if any, inflicted as when they are of long standing.

J. B. (22/2).—VITAMINS IN MILK.—The effect of prolonged heat on milk is to diminish the quantity of vitamin "C," hence sterilised and dried milk, whilst retaining vitamin "A" and "B," often show the absence of vitamin "C," the antiscorbutic element, usually made good by the addition of orange juice to the diet of infants. The heat of pasteurisation, on the other hand, is not sufficient to affect the third vitamin. The matter is not yet definitely settled in regard to the exact temperature of deterioration by heat.

G. C. G. (29/2).—The method of calculating the amounts of sulphuric acid and water to use for making a liquid of a given sp. gr. was given in the *C. & D.*, June 16, 1923, p. 858.

B. & Co. (3/3).—COCO-NUT OIL EMULSION.—We have no formula for this. Recipes for coco-nut oil shampoo were published in the *C. & D.*, January 7, 1922, p. 12.

T. C., Ltd. (4/3).—FISH GLUE.—

Russian glue	...	...	...	6 lb.
Acetic acid	...	...	...	8 lb.
Gelatin	...	...	...	1 lb.
Water	...	...	...	5 pints

Soak the glue and gelatin in the acid and water until soft, then dissolve by means of heat.

E. J. (26/2).—We published a good deal of information regarding Canadian pharmacy qualifications in the *C. & D.*, December 9, 1922, p. 807, to which we must refer you.

C. M. J. (2/3).—HENNA SHAMPOO POWDER.—The proportion of henna in this preparation need not be large, because in such a preparation the henna would have practically no effect upon the hair. Henna is required to remain on the hair for some hours if it is desired to tint the hair.

J. L. S. (3/3).—DIABETIC URINE.—Owing to numerous causes, the sp. gr. of urine is too great a variant to allow of any deduction being made on possible sugar content. The simplest way of estimating sugar is to use Gerrard's solution and compare the table given in Martindale's "Extra Pharmacopœia" (Vol. II). Information on diabetic foods is given in Hutchison's "Foods and Principles of Dietetics," which may help you in overcoming the heavy cost of special foods. The necessities are a sufficiency of protein and fat, freedom from carbohydrates, and the maintenance of a sufficient bulk. In the last-named respect bran and agar agar play a part, but it is questionable whether perfect and satisfying diabetic foods are yet obtainable at reasonable prices.

Ammon. Chlor. (27/2).—Ext. glycyrrhiz. liq., when old, not infrequently shows a turbidity. When ammon. chlor. was mixed with the liquid extract, which was quite clear, and free from suspended matter, we failed to obtain a deposit. The difficulty in your case is probably due to insufficiency of alcohol in the ext. glycyrrhiz. liq.

Hardwood (22/10).—JOINTLESS FLOORING.—The details of the method of making magnesite flooring is thus given in the "Journal of the Society of Chemical Industry":—

Ground calcined magnesite is mixed with hardwood sawdust in the proportion of one part of magnesite to 3½ parts of sawdust by volume. This mixture is gradually moistened with a magnesium chloride solution of about 22° Bé, until a portion squeezed in the hand adheres well together, but does not exude any moisture. The wet material is then spread evenly over the floor with a rake and carefully rammed down with a light wooden rammer. The surface is finally worked up with a steel float and the whole floor allowed two or three days to harden. If a coloured floor is required, the requisite amount of coloured earth (Indian red, burnt umber, or yellow ochre are commonly used) is added to the magnesite at the commencement of the operations.

Retrospect of Fifty Years Ago

Reprinted from
"The Chemist and Druggist," March 14, 1874
Herbalists and their Practices

The old doctrine of signatures is still extensively believed in. For instance, the pretty little eyebright, *Euphrasia officinalis*, has a small spot on the corolla, said to resemble the pupil of an eye; therefore it is supposed to be marked out, or *signed*, as a remedy in all diseases of the eye. It is thought the Great Creator of all things has thus put His signature upon the vegetable kingdom, and it is owing to the stupidity and blindness of man that plants are not discovered to be specific in all diseases. On the same principle the herberry (*Berberis vulgaris*), or, as more frequently pronounced, barberry, has this signature stamped upon its bark, the yellow appearance resembling the skin in jaundice; it is therefore remedial in that disease. To such an extent has this doctrine been carried that the medical faculty have thereby been deceived into using the herberry. It was introduced into the old pharmacopœias, although afterwards, when found to be inert, was discarded.



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METANIL YELLOW
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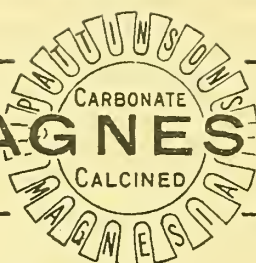
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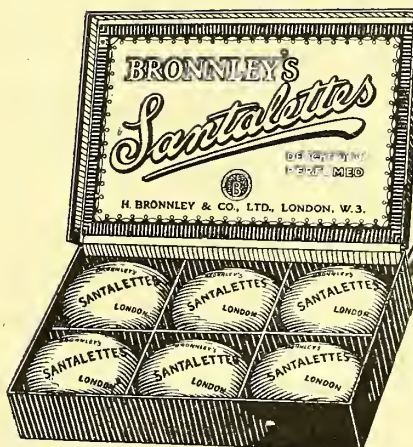
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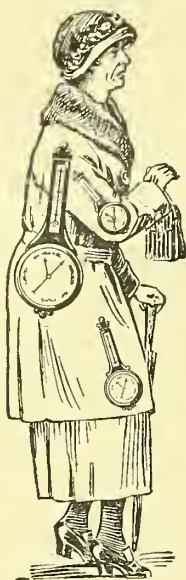
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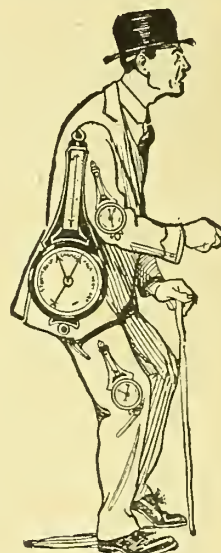
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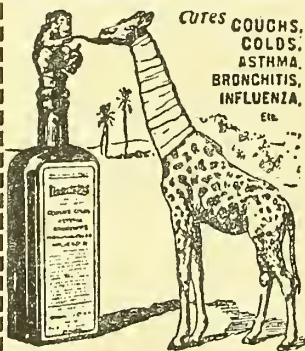
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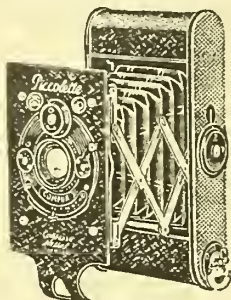
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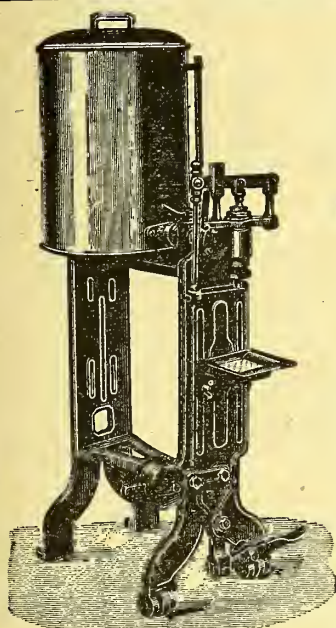
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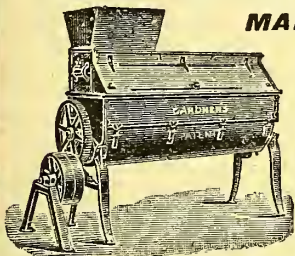
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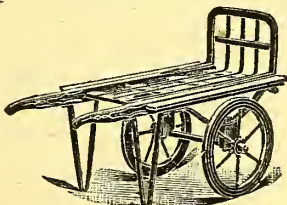
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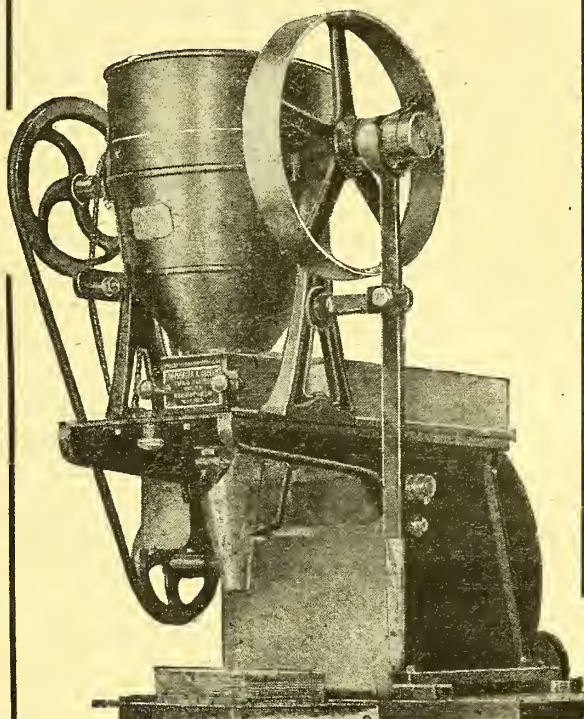


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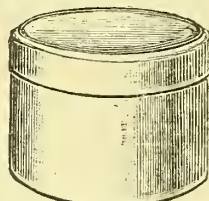
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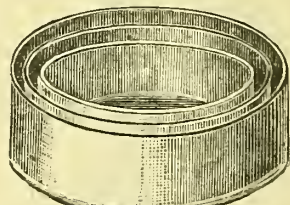
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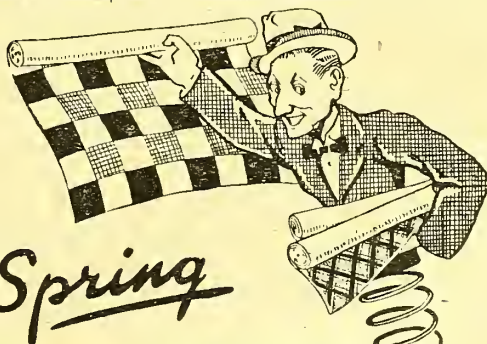
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2.—LONDON, N.—General Retail Business, with N.H.I. Dispensing; established many years; returns average £70 weekly, with scope for large increase under personal supervision; gross profit, 40 per cent.; double-fronted shop, modern; held on lease at pre-war rental; further details on application.

3.—LONDON, W. (Suburban).—General Retail and Photographic Business; returns, about £3,000 per annum; net profit, between £750 and £800 per ann.; lock-up shop held on lease at low rental; valuation terms entertained; part payment to suitable successor.

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SOUTH COAST.—A unique opportunity for a qualified man or anyone requiring change for health reasons; a Drug store in a nice situation; no competition; good living accommodation; pleasant situation; good scope; no N.H.I.; for disposal at a low figure for good reasons; cash only. 144/20, Office of this Paper.

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YORKSHIRE.—Selection of Businesses, comprising Chemists and Drug Stores, all sound going concerns, with or without property, returning £18 to £25 weekly; living accommodation, lease, etc.; £400 to £1,200. Also several neglected, Manchester and suburbs, low price for quick sale. Brierley, Chemists' Valuer, 135 Queen Street, Newton Heath, Manchester.

A SPLENDID opportunity offers itself to an energetic man to acquire and develop a Druggist Sundries Business of some years' standing in the Eastern Counties, on account of retirement of Proprietor; no premium is asked; capital required for stock will be less than £800. P.C.B., 51/2, Office of this Paper.

CHEMIST'S Business for disposal. Full information from Ayrton, Saunders & Co., Ltd., Liverpool.

EXECUTORS' sale, main street of colliery town; old-established Business of Chemist and Druggist for disposal in consequence of death of proprietor; stock, fixtures, etc., £400; freehold of premises also for sale. Apply, V. B. Boynton, Chartered Accountant, 70 High Street, Coalville, near Leicester.

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PHOTOGRAPHIC Chemist's for Sale; prominent London suburb; apparatus to cope with big orders of D. & P. easily under unqualified; N.H.I. could be added; £300 all at for quick sale; lease 21 years; rent £70, rising £100; recommended. Apply, Hobday & Sons, F.A.I., adjoining Town Hall, Richmond.

SMALL Chemist Business for disposal, centre of Ipswich, Suffolk; house and shop; rent £45; ingoing about £200. Oxborrow, Auctioneer, Ipswich.

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THE Committee of Visitors invite Tenders for the supply of **DRUGS** for the Three Months ending 30th June, 1924.

For form of tender apply, enclosing stamped, addressed envelope, to "Mr. R. Overend, Clerk of the Hospital, Severalls Mental Hospital, Colchester."

Sealed tenders must be received not later than Saturday, 15th March, 1924, addressed to the Committee of Visitors, Severalls Mental Hospital, Colchester.

The Committee of Visitors do not bind themselves to accept the lowest or any Tender.

By Order,

H. H. GEPP,

Clerk to the Visitors.

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BIRMINGHAM.—Required immediately, capable Junior Assistant, 19-23; accurate Dispenser, reliable Counterman. Apply, stating age, experience, references and salary required. Any application not answered in 7 days respectfully declined. H. Astle, Chemist, Netchells.

BIRMINGHAM.—Wanted, a Qualified Male Assistant; age 25-30; able to take charge; easy work; must be obliging and of good appearance. Please state salary required, age and usual particulars to 145/15, Office of this Paper.

COVENTRY.—Wanted, qualified lady; quick and accurate Dispenser and good Counterwoman. Full particulars as to salary, references, etc., in first reply; with Photographic knowledge preferred. 40/294, Office of this Paper.

DEVON.—Junior Assistant required at once for good-class Family and Dispensing Business, with thorough knowledge of Photography essential. Please state age and experience, with references and salary required, to Holman & Ham, Tavistock.

FLEET.—Qualified Manager; not over 40; married; good house; must be well up in all branches, including Window-dressing. State age, salary (indoors), references. Allen & Lloyd, Aldershot.

FOLKESTONE.—Wanted, Assistant (male); qualified, experienced in good-class Dispensing and Retail. Please give full particulars as to experience, age, height and salary required (outdoors), and enclose photo. Hall & King, West Cliff Pharmacy, Folkestone.

LIVERPOOL.—Young qualified Manager; must be first-class Window-dresser and good Salesman and accustomed to quick cash business; excellent prospects for suitable man. Full particulars in first letter to Heaths, The Liverpool Chemists, High Street, Wavertree, Liverpool.

LONDON.—Unqualified Assistant; must be good N.H.I. Dispenser and good Counterman; working-class district; permanency. "London," 143/50, Office of this Paper.

LONDON.—Dispenser wanted; Minor qualification; part-time evenings only; must be quick and accurate. State salary required and references, in first place, to Hanbury, 41 Blandford Street, Marylebone, W.1.

LONDON, N.—Qualified Manager required, age 35-40, 1 medium-class business; knowledge of Photography a good Window-dresser. Apply, giving full particulars of experience, salary required, etc., 146/31, Office of this Paper.

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LONDON, S.W.—Counter Assistant urgently required with good knowledge of Surgical Appliances; experienced in fitting Trusses, Belts, etc.; applicants to state age, experience and salary required; personal interview necessary. Write first instance Box 1056, Sells Advertising Offices, Fleet Street E.C.4.

LONDON, S.W.—Qualified Manager wanted for good-class modern Pharmacy; must be live, energetic, business building good Window-dresser and Salesman. Give fullest particulars and state salary required, and when disengaged, to 146/31, Office of this Paper.

LONDON, W.10.—Smart Assistant wanted, age about 24, for good-class Dispensing and Retail Business; knowledge of Photography. Apply, with full particulars age, height, and salary required (indoors), and if possible enclose photo. J. I. Faulkner & Co., 173 Ladbroke Grove.

LONDON, W.—Unqualified Assistant for relief work; not under twenty-seven years of age, with a good general knowledge of Retail Pharmacy. Apply, with full particulars to 146/14, Office of this Paper.

MAIDA VALE.—Junior male Assistant wanted; must have had good Dispensing experience. Apply, R. H. Parker, 3, Clifton Road, Maida Vale.

MANCHESTER.—Qualified Assistant wanted for middle-class business; N.H.I., etc.; age not over 40; also elderly; qualified as Cover for small branch; easy hours; light duties. State salary and full particulars. "Manchester," 144/39, Office of this Paper.

NOTTINGHAMSHIRE.—Experienced Assistant for quiet Retail, with N.H.I. Dispensing and Photography; industrial district; qualification not essential; age 22-30; must be willing and obliging; reasonable hours; no Sunday duty. State salary and full particulars, 146/3, Office of this Paper.

SOUTHSEA.—Qualified male Assistant; single; age not over 25; accustomed to good-class Dispensing and Counter, with knowledge of Photography. Apply, giving full particulars age, height, experience, references, salary required, and enclose photo (to be returned), W. A. Bell, Strand, Southsea.

THIRSK.—Improver or Junior, unqualified, for Mixed Agricultural business. Give full particulars, also stating salary required, in first letter. Please consider application not replied to in seven days not accepted. Knaggs, Chemist, Thirsk.

WARWICK.—Qualified or experienced unqualified for good-class Light Retail and Dispensing, with Photographic; Optical experience might be an advantage; age 25 to 35; applicants please state salary and give references; permanency. Croasdale, Rexall Pharmacy.

YORKS.—Unqualified Assistant required; must be a good Counterman and have had good Photographic experience. State age and salary required. "Yorks" 138/25, Office of this Paper.

10, CHESTER PLACE, Hyde Park Square, London, W.2.—A qualified man, not over 28, is wanted to occupy a vacant position in a high-class Dispensing business; one who is capable of good work and able to take the Counter is essential. Apply, stating age, salary required, and previous experience, to L. S. Lindley.

ASSISTANT, age about 25, for modern Pharmacy in Home Counties; experienced Window-dresser, and used to Kodak Counter trade. Please give particulars and salary required to 143/9, Office of this Paper.

ASSISTANT, young, energetic, and of smart appearance; neat and accurate Dispenser and tactful Salesman. Applications unanswered within seven days respectfully declined. State age, salary, and experience in full. Leonard Matthews, 722 High Road, Leytonstone, E.11.

ASSISTANT; unqualified; experienced; reliable; good appearance; neat Dispenser; comfortable berth for right man. Replies unanswered in three days respectfully declined. Venables, 211 King Street, Hammersmith.

ASSISTANT, Junior, unqualified; one used to a brisk business; good Dispenser essential; knowledge of Photography and Counter. Full particulars of experience, age, salary. Applications not answered in three days declined. H. F. Ferriss, 349 High Road, Lee Green, London.

ASSISTANT, for South London, age about 24, for Stock, Dispensing and Window-dressing; no use applying unless experienced in putting in a good selling window. In reply, please give usual particulars as to age, references, salary, etc., to 146/18, Office of this Paper.

BRANCH Manager and Assistant wanted, with sound experience; must be canable and energetic. Full particulars to Bannister, Chemist, Bloxwich.

HALL CERTIFICATE.—Young lady, with good Counter experience, required as Dispenser for Woodgrange Road, Forest Gate. Apply, in writing, to "E. H., Parke's Drug Stores, Ltd., 65 Harwood Street, Chalk Farm, N.W.1.

JUNIOR Assistant, unqualified, male, for good-class country business; short hours; must be reliable, willing, and energetic. Apply, stating age, height, salary, (outdoors), enclose photo (to be returned), and references, Tayler, Pharmaceutical Chemist, Sherborne, Dorset.

JUNIOR or Improver; must have excellent references; accustomed to good-class Toilet business and Dispensing; smart Counterman and Window-dresser. Apply, H. R. Stocks, Ph.C., Halifax.

JUNIOR Assistant wanted (male), of good appearance, for high-class Retail and Dispensing business; Photography. State salary (outdoors) and enclose photograph, to H. R. Browne, 1 Cornfield Road, Eastbourne.

MANAGER, qualified, required by private limited company; quick and accurate Dispenser; one who would invest and become Director preferred, but not essential. State salary required, age, experience, and if prepared to invest; permanency for right man; vacant house if required. "Zinci," 143/26, Office of this Paper.

MANAGER; qualified; well up in Prescribing, Photographic, N.H.I., keen buyer, able to sell and dress windows for company shop in Home County; one with ideas and progressive (outdoors). State age, experience, salary required, and when at liberty. "Radix," 145/8, Office of this Paper.

QUALIFIED Manager wanted for good-class Retail and Dispensing business; knowledge of Photography; also unqualified Assistant; both outdoors. Rock & Breakspear, Ltd., Chemists, Maidenhead.

QUALIFIED Manager required, married, and capable of taking some responsibility; must be a good Counterman and Dispenser, and have had sound practical experience in Photography; house attached to shop; splendid opportunity for the right man. "West," 138/250, Office of this Paper.

QUALIFIED Junior; active, good Dispenser, reliable Counterman, age, height, photo (returnable). Full details of experience, etc., in first letter. Any application not answered in 7 days respectfully declined. N. H. Dannatt, High Street, Orpington.

QUALIFIED Manager wanted for S.E. district; permanency for experienced man. Please state age, height, salary, experience, etc., to 40/297, Office of this Paper.

QUALIFIED Junior, lady or gent.; good Dispenser; able to take Counter. Write full details, salary. Applications not answered in 7 days respectfully declined. F. Fawn, Chemist, Castleford, Yorks.

QUALIFIED Assistant (male) required for busy Counter, N.H.I. and Prescribing; 28 to 35; able to take charge occasionally; outdoors; no Sunday duty. Write, in first instance, with all details, to Davies, 100 Dalling Road, Hammersmith, W.6.

QUALIFIED Manager for branch; must be a good Salesman and Window-dresser; one used to a quick cash Prescribing business in working-class neighbourhood; married; age about 32; good house attached. Apply, stating age, height, salary required, experience, etc., W. F. Cole, 41 London Road, Lowestoft.

RELIABLE outdoor Assistant (male) wanted in good-class Dispensing and Retail business in Surrey; must be quick and accurate Dispenser. Apply, with full particulars, to "Fortuna," 143/6, Office of this Paper.

RELIEF Assistant, qualified and competent, for Tuesdays and Wednesdays. Matthews, 6 Fortess Road, N.W.5. Phone: North 2803.

REQUIRED now, a Second Assistant for a good-class, all-round business; age under 30 and single; one with some all-round experience. Please give age, height, references, and usual particulars, and photo, which will be returned. T. L. Nicholls, M.P.S., Duke Street, Chelmsford.

REQUIRED, Young Lady; must be quick and accurate Dispenser, good writer, able to develop and print photographs. Full particulars, C. J. Roe, Chemist, Epsom.

SMART, young, qualified Assistant wanted at once for up-to-date business. Apply (personally preferred), Evans, 239 Hammersmith Road, W.6 (near Broadway).

SMART qualified Assistant; capable of entire charge; not over 35; must have good testimonials and be prepared for plenty of work; usual hours. State full particulars and salary required, whether married or single (outdoors). J. W. Douglas, 19 Kennington Terrace, S.E.11.

SOUTHALLS, Birmingham, have a vacancy for a qualified Junior Assistant in their Dispensing Department. Apply, with full particulars, to 17 Bull Street.

UNQUALIFIED Assistant; must have had good practical experience in Photography, developing and printing; permanent and progressive post. "Photo," 143/5, Office of this Paper.

WANTED, unqualified Assistant; young; energetic; used to Veterinary business. State age, experience, and salary required, with two recent testimonials. "M. T. C.," Veterinary and Family Chemists, 62 East Street, Derby.

WANTED, young unqualified Assistant as Locum for three weeks, commencing March 24; good Dispenser; no night or Sunday duty. Applications not answered in three days declined. Full particulars as to salary, etc., to Francis & Groves, 129 High Street, Guildford.

WANTED, immediately, unqualified Junior (single); good Dispenser, also understand Photography and "D. and P.," good address; smart Counter hand essential. Apply, giving full particulars, age, height, salary required, etc., to "Brighton," 40/299, Office of this Paper.

YOUNG unqualified Assistant required; Photography essential. H. Buckley, 84 Far Gosford Street, Coventry.

WHOLESALE.

REPRESENTATIVES WANTED

with first-class connection amongst Druggist Sundriesmen, important Rubber Houses and Wholesale Chemists with multiple shops, by leading firm of Manufacturers of Rubber Goods, etc., on commission basis, for all counties in Great Britain.

Apply, by letter, to 40/296, Office of this Paper.

GLASGOW AND DISTRICT.—Representative, carrying other lines, required by London Wholesale Drug and Sundry House; good commission. Write, giving particulars of connection and lines carried, P.C.B. 50/33, Office of this Paper.

AN old-established firm of Wholesale and Manufacturing Chemists in Dublin requires the services of an industrious and ambitious young man to assist in the Preparation and Packing of Specialities; also of a young woman to superintend the work of girl packers; permanent and progressive positions are offered to suitable applicants. Apply, with fullest particulars of past and present experience, stating salary required, to Ernest J. George, 3 St. Paul's Close, Walsall.

CLERK, experienced, wanted for reputable Wholesale Firm in Edinburgh; must have knowledge of trade, Book-keeping, and be able to answer correspondence. Apply, giving age, previous experience, references, etc., 40/292, Office of this Paper.

SIDE Line. £208 per annum guaranteed.—A well-known firm of Face Cream Manufacturers require part-time services of a first-class man calling on Chemists and Stores in London and district; must be well known to the trade and able to get goods shown. Write, giving full particulars, including name of firm already representing, 40/295, Office of this Paper.

THE services of a young man of presentable address, and who has had good Office experience in the Export Drug Trade, are required by a London Wholesale House; one with an aptitude for calling upon customers and cultivating new business is sought; London area only. Send full particulars, age, and salary required, to 36/155, Office of this Paper.

TOILET Soap Traveller to call on Chemists; must have had previous experience and knowledge of the trade. State salary required, with full particulars, in confidence. Geo. Holliday & Co., Ltd., 325 City Road, Manchester.

TRAVELLER, with good connection amongst Chemists (Wholesale and Retail) and Stores in the North of England for sale of Combs, Slides, Toilet Goods, and well-known high-class French Perfumery; terms to be arranged satisfactorily to good applicant. Full particulars confidentially to 40/291, Office of this Paper.

TRAVELLER wanted immediately to represent Druggists' Sundries House in South Wales and other districts; experience and good connection essential. Write "Sundries," c/o Deacons, Leadenhall Street, E.C.3.

WANTED, Assistant for Wet Counter Department of Provincial Wholesale House. State full particulars to "Aloes," 40/293, Office of this Paper.

WELL-KNOWN Speciality House requires a successful Assistant or Manager who desires Outdoor Salesman's position; excellent remuneration and good prospects; age under 40; preferably in employment now; previous experience in calling on shopkeepers an advantage. Reply, with photograph, to Box 750, Willings, 30 King Street, Covent Garden, W.C.2.

WHOLESALE Druggist Sundries' House requires Representatives for Lancashire, Yorkshire and North and South Wales, with connection essential; whole or part-time. 145/19, Office of this Paper.

YOUTHS.—Wanted, two youths for Wholesale Chemists' Warehouse; must have had some experience; age 18 or 19. Apply Thos. Hodgkinson, Prestons & King, 262 Bishopsgate, E.C.2.

[COLONIAL, INDIAN AND FOREIGN.]

CALCUTTA.—Wanted, by Bathgate & Co., Chemists, two young men, under 25, unmarried, qualified; good experience essential, and character must bear strictest investigation; 4 years' agreement; passage paid out and home; salary, 1st year Rupees 400, 2nd 425, 3rd 450, and 4th 475, monthly. Reply, stating full particulars of experience, etc., to P.C.B., 51/3, Office of this Paper.

INDIA.—A well-known London House, specialising in the manufacture of Tablets and Pills, invites correspondence from gentlemen at present calling on Retail Chemists in India, with a view to representation on a commission basis. Applications, giving full particulars in first letter as to territory, experience, etc., will be treated in strict confidence. "Statice," 40/298, Office of this Paper.

KENYA COLONY.—Qualified Assistant, single, about 25; good general experience; knowledge of Photography; 4 years' agreement; second class passage paid out and home; salary first year £360, second year £390, third and fourth years £420. Apply, with full particulars and photo, to 50/200, Office of this Paper.

RHODESIA.—For healthy town, qualified Assistant; Midland or North of England man preferred; single, under 30; good all-round experience; three years' agreement; second class passage paid out; salary first year £330, second year £360, third year £420. Apply, with recent photo and references, to P.C.B. 50/20, Office of this Paper.

PILL Maker wanted, first-class all-round man, unmarried, for a healthy British Colony; three years' agreement; passage paid out; salary first year £22 month, second year £24, third £25. Apply, by letter only, to "C. M. N.," 33 Alexandra Crescent, Bromley Hill, Kent.

SITUATIONS WANTED.

RETAIL.

[HOME.]

A CAPABLE and reliable man seeks re-engagement; qualified; 30 years' experience; excellent references; permanency or Locum. "Chemist," 26 Crosby Road, Forest Gate, E.7.

A COMPETENT, reliable Assistant or Manager (unqualified), experienced in Dispensing, Counter, Window-dressing (diplomas), Photography and Optics; North preferred, but not essential; permanency desired; good references. Illsley, Startforth, Barnard Castle.

A QUALIFIED Chemist, 26, experienced Counter and Business man, desires permanency. Hudson, 17 Mornington Road, N.W.1. Museum 5243.

A CTIVE, energetic, capable and experienced (all branches) unqualified Assistant, desirous of a change, seeks permanency; age 28; good references. 143/10, Office of this Paper.

A DVERTISER, a young qualified Chemist (contemplating a change in the near future), requires responsible post as Manager or Managing Assistant; a business man and a worker; experienced Window-dresser and Ticket Writer; able to sell and make a window do likewise; undeniable references; interview any Thursday afternoon. "M.P.S.," 47 Warwick Street, South Belgrave.

A DVERTISER desires Locum work for season; considerable experience as manager and locum; good references; will book dates in advance. "J. W. D.," 16 Heywood Road, Diss, Norfolk.

A DVERTISER (Pharmaceutical Chemist) open for Manager-ship or full charge Dispensing Department; would entertain with view to Partnership or succession. 146/340, Office of this Paper.

A S Locum; experienced Lady Dispenser is free to book dates now till end of June; with Doctor preferred. 144/29, Office of this Paper.

A S Manager; good, sound experience, West and suburbs; reliable; clean and active worker. "Chemist," 3 Albert Square, Clapham Road, London, S.W.

A S Senior; 20 years' high-class Store, Dispensing, Photographic, and Window-dressing experience; 39; tall; permanency (London and provincial experience); disengaged end March; references excellent; large centre preferred. "Aspirin," 12 Darby Road, Folkestone.

A SSISTANT, 27, 5 years' General experience, Agricultural, etc. quick Counter and Dispensing N.H.I.; good references "W. L. S.," 4 Amherst Road, Bexhill-on-Sea.

A SSISTANT, 26, married, with good knowledge of Dispensing Counter work, and Photographic trade, seeks position country preferred; good references. Evans, "Chandos," Knighton, Radnor.

A SSISTANT (unqualified); excellent experience, Dispensing Counter and Photography; good references. Huxtable "Marquey," Marguerite Drive, Leigh-on-Sea.

A SSISTANT, Chemist's son, 30, seeks post; good Counterman first-class experience in all branches of Photography; good Window-dresser; no Dispensing; good appearance. Richmond 19 Paget Street, Wolverhampton.

A SSISTANT desires situation in Counter and Dispensing business immediately. Apply "Assistant," 2 Beacon View Cottage, Connaught Road, Fleet, Hants.

A SSISTANT, unqualified, Stock, Counter, Dispensing, Prescribing, desires change; permanency. "Chemicus," 3 Dulwich Road, Herne Hill, London, S.E.

A SSISTANT, Senior, unqualified Dispenser; Photography worker; 8 years last berth; London or Midlands. "Statim," 1 Windsor Villas, Falmouth.

A SSISTANT, 20, requires post in or near Cheltenham or Gloucester; Dispensing and Counter. Ayling, 16 Mount Road, Hinckley.

A SSISTANT; 41; unqualified; married; 20 years' good experience; Ealing or district preferred. 145/30, Office of this Paper.

CHEMIST-OPTICIAN (both qualifications), age 25, height 5 ft. 8 in.; excellent experience in Dispensing and all branches, including Photography. "Statim," 141/35, Office of this Paper.

COMPETENT Assistant; good experience, Counter, Dispensing Photography, and Window-dressing. Shiels, 28 Nwingle Butts, S.E.

DISENGAGED.—Permanent or relief work; Dispensing Counter; unqualified; 43. Edwards, 70 Abingdon Villa Earl's Court Road, W.

DISENGAGED.—Qualified; London reference; permanency; London; Dispensing or Counter. James, 27 St. George's Road, Hampstead, N.W.

DISPENSER, qualified, seeks post with Doctor; town or country; abstainer; married; no children; would live at surgery if required; sound testimonials. 143/22, Office of this Paper.

DISPENSER; disengaged; 13 years' experience with Doctors and Institutions; Secretary-Receptionist. Miss "E." 19 Gordon Street, W.C.1.

DISPENSER; Superintendent or Cover; 49; single; terms moderate; full or part-time; qualified. 144/28, Office of this Paper.

DISPENSER, lady, Hall, experienced, requires post; Dr. or Hospital; London, Leeds or Surrey preferred. 145/14, Office of this Paper.

HIGHLY recommended Assistant, unqualified, requires a change; single; 30; tall; thoroughly experienced in all departments, Windows, Counter, Dispensing, high-class and N.H.I., Photographic (all departments), Stock-keeping, and Stocktaking; able to control and take charge; excellent references; at present employed in London; commence any date; seaside preferred, but not essential; interview suggested. "Conservative," 144/24, Office of this Paper.

JUNIOR, 19, disengaged, requires situation; knowledge of Photography, Window-dressing, Dispensing; good references. Wright, 32 Avondale Street, Lincoln.

JUNIOR (19½) requires sit.; tall; good appearance; quick; accurate Dispenser; Counter; slight knowledge of Photography; good references; West of England preferred. 145/3, Office of this Paper.

JUNIOR Assistant (21) seeks opening; 5 years' all-round experience; tall; smart appearance; thoroughly dependable; excellent references. 144/38, Office of this Paper.

LADY Dispenser, Book-keeper (Hall) desires position Doctor or Chemist; Shorthand typist; 6 years' experience; disengaged now; good references; permanency; counter work and window-dressing, if necessary. 143/2, Office of this Paper.

LADY Dispenser (Hall) requires post Doctor or Institution; nearly 3 years' experience. Allanson, 3, Cavan Road, Redbourn, Herts.

LADY Dispenser, 23; Hall; free after March 16; good experience (N.H.I., Book-keeping, Typewriting, etc.); Locum or permanency. M. C. Ashford, 27 Surrey Street, Norwich.

LADY Dispenser-Book-keeper (Hall) desires post, Doctor or Institution; experienced; London preferred. 146/15, Office of this Paper.

LADY Dispenser desires post with Doctor or Chemist in London. 144/25, Office of this Paper.

LADY (Hall) requires Dispensing experience; willing to pay premium for three months, London Chemist. State terms. Wallis, 83 Belsize Lane, N.W.3.

LOCUM; qualified; first-class references; wide experience; at liberty. Dodd, Felley Priory, Jacksdale, Notts.

LOCUM; disengaged; thoroughly competent, experienced, industrious, reliable; town, country; well recommended; terms reasonable. "Salop," 239 Camherwell New Road, S.E.5.

LOCUM, unqualified, age 23, open for engagement for three weeks, commencing March 31. Neal, 28 High Street, Tonbridge.

M.P.S., FULLY qualified, disengaged, requires position in West-End Pharmacy; speaks French and German fluently. S. Humpbrys, 1 Belsize Avenue, London, N.W.3.

M.P.S., LADY, 24; capable Dispenser; 5 years' Retail experience; whole or part time; moderate salary; London essential. 145/38, Office of this Paper.

MANAGER, good experience in all branches Retail; 9 years Manager busy London suburban shop; excellent references; disengaged shortly. 143/8, Office of this Paper.

MANAGER; qualified; married; first-class experience in all branches; Photography; several years' Managing experience; used to control; situation sought where worth appreciated; living accommodation preferred; London or near. 145/13, Office of this Paper.

OPTICAL.—Young man, 18, of good appearance and address, height 5 ft. 11 in., one year's course in Optics, would be willing to assist in any way at Counter for an opportunity to learn practical Optics; small remuneration. Apply Weight, 11a Westdown Road, Catford, S.E.6.

PART or whole time; young lady, M.P.S.; 8 years' varied experience in Retail, Dispensing, Photography, Window-dressing. 146/24, Office of this Paper.

PART-TIME; lady; qualified; Dispenser, Book-keeper, Secretary; free 9-12.30 p.m. daily; excellent references. Reply 41/31, Office of this Paper.

PART-TIME, evenings; qualified, speaking French; best experience. "T." 4 Kenilworth Court, Putney.

QUALIFIED, 32, desires change; London district preferred; all-round experience; good Dispenser, etc. 128/2, Office of this Paper.

QUALIFIED; elderly; Hospital or Institution; 11 years' Hospital experience. "Chelsea," 22 Bramerton Street, Chelsea, S.W.3.

QUALIFIED, disengaged, Branch Manager, Assistant or Locum; 40 years' experience; last situations 9 and 8 years; excellent references; accustomed Store business; active. Hodson, 22 Brixton Road, S.W.

QUALIFIED Manager, 28, tall, desires management in provincial town, offering scope and permanency; highest references Photography; with house desirable. "Qualified," 96 Beaconsfield Road, Leicester.

QUALIFIED Chemist (Registered Dentist), mature age and experience, desires appointment as Senior or Branch Manager; disengaged shortly. "Pharmacist," 500 City Road, Birmingham.

QUALIFIED; thoroughly knows his business; Dispensing, Counter, Photography, Surgical; married. Robinson, 19 Derby Road, Croydon.

QUALIFIED lady desires post; 11 years' experience, Dispensing, Window-dressing, Photography; good Saleswoman; London. "Chemist," 36 York Street, Baker Street.

QUALIFIED Manager or Assistant; tall; energetic; married; over 10 years' experience at Counter, Dispensing, Photography, and Window-dressing in town and country Pharmacies; excellent references; free in April. "M.P.S.," 15 Sedgely Road, Bournemouth.

QUALIFIED, all-round experience, desires position of trust; good appearance and address; abstainer; Churchman; 30 years' experience. 145/4, Office of this Paper.

UNQUALIFIED, 21, seeks post; all round Retail experience; good references; now disengaged. 142/38, Office of this Paper.

UNQUALIFIED, 33, married, seeks berth as Manager or Assistant; 18 years' all-round experience; not afraid of work; references excellent; South preferred. "Capsici," 145/29, Office of this Paper.

WEST RIDING.—Wanted by qualified lady, 24, post with Chemist; 5½ years' Retail experience; Optics. "Pharmacist," 36 Peel Moat Road, Heaton Moor, near Stockport.

WORKER requires change; experience of Private and Store Management; age 27; thoroughly efficient; married; housing accommodation if possible; London preferred; must be responsible and progressive post. 146/5, Office of this Paper.

WHOLESALE.

ADDITIONAL Live Proprietary Line wanted; Margate to Penzance; established connection; references. 141/38, Office of this Paper.

ADVERTISER, energetic, keen Buyer and Organiser, at present controlling several businesses in Retail where scope is too limited, wishes take up position of trust in Wholesale where go ahead methods and progressive ideas can be adopted. 144/35, Office of this Paper.

ASSISTANT Chemist, 23; 3 years' technical training, London University; B.Sc. (Chemistry); willing to take any post in keeping with qualifications. M.L. 5673/23, Office of this Paper.

CHEMICAL WORKS or Oil Refinery.—Ex-Officer, 30, single; educated Public School; 3 years' University; Intermediate Physics and Chemistry; some knowledge French; 4 years' Laboratory experience; good knowledge electrical engineering. M.L. 34284, Office of this Paper.

CHEMIST (Pharmaceutical) desires position as Representative, or would consider suitable indoor berth; first-class Retail experience. 146/34, Office of this Paper.

EX-OFFICER, A.I.C., 43; married; educated Public School; good knowledge French; one year's experience Assistant to Analytical Chemist, eight years Manufacturing Chemist; willing to take any post. M.L. 5977/22, Office of this Paper.

EX-OFFICER, 24, M.C., B.Sc.; Honours Chemistry, A.R.C.S. (Chemistry), A.I.C.; some knowledge French; 12 months' experience manufacture and application of Industrial and Laboratory Filter paper. M.L. 70954, Office of this Paper.

LADY Clerk, age 25, seeks post; 8 years' experience leading Sundry House; general office routine; good references; moderate salary. "M.C.," 9 Grasmere Road, Muswell Hill, N.10.

MAN, 25, Wholesale Laboratory experience, also Hall qualification; good references. Batten, 184 Church Road, N.W.10.

M.S.C. (Hons.), B.Sc. (1900), 44, single, desires Chemical, Metallurgical or Commercial post; experience as Chief Chemist and Manager of Chemical Manufacturing Co.; also as Chief Chemist and Metallurgist in Metal Co.; sound experience all branches; is willing to take any post suitable to qualifications. M.L. 71755, Office of this Paper.

MANUFACTURING Pharmacist, 38, with business capacity and experience, seeks permanency; good recommendations. 144/40, Office of this Paper.

MEDICAL REPRESENTATIVE.—The Senior Medical Representative of a well-known firm owning Medical Proprietarys, with a highly successful record of 16 years' service in Ireland and Great Britain, will shortly be open to accept another appointment; well qualified in Chemistry, Dietetics, and Therapeutics, and a convincing writer of Advertising Medical Literature. Write, in confidence, to "Chemico," 144/35, Office of this Paper.

PHOTOGRAPHIC Representative, travelling Sussex and Kent with own car, available at £2 monthly, plus commission. "R.A.C.," 146/10, Office of this Paper.

PILL Maker, Sugar, Pearl, Chocolate Coater; 20 years' experience; capable of taking charge. "Canella," 277 Ladbroke Grove, W.10.

PROPAGANDA work amongst Doctors and Dentists.—Experienced Traveller is open for appointment; 15 years' experience; credentials for the work and salesmanship. "Medico," 146/8, Office of this Paper.

REPRESENTATIVE.—Live Salesman desires position with old-established Drug Proprietary or Sundry House; South of England essential; returns and increased business guaranteed; only such houses as above considered; unquestionable references; salary and expenses basis. "A. B. C.," 145/24, Office of this Paper.

REPRESENTATIVE, well known throughout Lancashire and Cheshire, desires change; Drugs, Chemicals, or Toilet Specialities; only first-class houses entertained; salary and commission basis; highest references. 124/18, Office of this Paper.

REPRESENTATIVE, excellent connection London and South-East Coast, desires appointment with first-class house; salary and expenses. P.C.B. 50/32, Office of this Paper.

REPRESENTATIVE, N., E. and W. London, would like another profitable line; not tablets; expenses and commission basis. 145/6, Office of this Paper.

REQUIRED, position in Wholesale Patents and Sundries Warehouse, which will afford prospects of advancement to energetic and hard worker having practical working knowledge of present-day methods of handling large numbers of orders for quick dispatch. 136/12, Office of this Paper.

SITUATION required in London by young Pharmaceutical Chemist; will work in any capacity; energetic and reliable; ex-Manager; well recommended; interview with pleasure (London). 146/27, Office of this Paper.

TEN years' experience, and study, of methods and systems of Stock-keeping, Assembling, Checking, Packing and Despatching with various London houses; good knowledge of Drugs, Patents and Sundries; age 28 years; seeks permanent situation; can attend interview at a day's notice; arrange termination of present engagement conveniently. "C.," 17 Vincent Terrace, Islington, N.1.

TRAVELLER, experienced, requires post in any territory; having own car can carry large range of samples; salary and commission; disengaged; interview preferred. "T. H. L.," 40 Sandringham Street, Hull.

TRAVELLER, excellent connection Midlands and West of England, wishes represent first-class House, either or both grounds, Drug or allied trades; experienced Salesman; earnest worker; undeniable references; now disengaged. 146/25, Office of this Paper.

TRAVELLER, with live connection West of England and Wales, wishes to represent additional firm on commission and expenses basis; not tablets. 146/29, Office of this Paper.

YOUNG gentleman, 28, requires position with first-class Wholesale House; excellent references. 135/34, Office of this Paper.

YOUNG qualified Chemist, with 6 years' highest class Dispensing experience, a lover of accuracy and Pharmaceutical excellence, a believer in organisation and efficiency, and an energetic, conscientious worker, seeks a start with firm turning out highest grade pharmaceutical products. 143/14, Office of this Paper.

YOUNG man, 19, experienced in Retail Drug trade, seeks situation with London house; Shorthand - Typewriting. 147/16, Office of this Paper.

MISCELLANEOUS.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.2.

CHEMIST'S Fittings (second-hand).—Ranges of Drug Drawers, Shelving, All Glass Counters, Centre Cases, Window Fittings of all descriptions. D. MATTHEWS & SON, Chemist Fitters, 14/16, Manchester Street, Liverpool.

COMPLETE SET OF SHOP FITTINGS, suit beginner or branch.—14 ft. handsome Drug Fixture, 6 ft. massive Wall Case, 12 ft. Glass Front Counter with drawers at back, 6 ft. Dispensing Screen with large mirror centre, Perfume Case and Desk, two Plate Glass Counter Cases, 4 ft. all-glass Toilet Counter; £150 the lot. PHILIP JOSEPHS & SONS, LTD., Shop Fitters, 93 Old Street, London, E.C.1.

LIMITED COMPANY FORMATION.

Before placing your Company in other hands, get my quotation. I specialise in Chemist and tradesmen private companies and quote inclusive charge; no extras. A. B. Slack, 180 Garston Old Road, Liverpool.

BUCHU Leaves, South African; offers wanted; 300 bales, 50/60 lbs. each; bulk or part; immediate shipment. S. F. JAMES & CO., 2 Basinghall Avenue, London, E.C.2.

R.P.U. EXECUTIVE

North-Western Area.

TO SECURE DIRECT
REPRESENTATION
FOR CHESHIRE

VOTE FOR
WALLIS

CHAIRMAN OF THE COUNTY
PHARMACEUTICAL
COMMITTEE.

5 CWT. Soap, pound bars, 22s. cwt.; Toilet Soap, 3½ gross case, 70s.; 60 gross 4-oz. Glass Cream Jars, £22; cwt. Lamp Black, 20s.; 200 lbs. Mist. Ammon. Sal., £3; 160 lbs. various Tablets, £5; 30 bottles stock sizes Pills, 30s.; Barrel Mixer, £5; Steam Jacket Pan, enamelled, 42 in. x 12 in., £25. L. BATTLE & CO., Stockport.

16 gross 1 lb. Fruit or Pickle Glass Jars, 20 gross each 20 oz. and 32 oz. Blue Glass Winchester, 50 gross 2 oz. and 25 gross 4 oz. Stone Furniture Cream Jars, 5,000 gross No. 2 Bottle Caps, 4,000 gross Rubber Capping Bands, 14 cwt. Lump Glucose, 250 gross ½ oz. cut-down Chipette Ointment Boxes, cheap to clear. STOTHERTS, LTD., Atherton, near Manchester

EXCHANGE COLUMN.

FOR DISPOSAL.

60 12- and 6-gallon Iron Drums; price 3½d. per gallon; free or rail, Biggleswade. Allen & Son, Biggleswade.

CARBOYS—2 x 3 gall., swan-necked (show). York Glass Co. A. B., c/o Paton & Finlay, 177 Brantfield Place Edinburgh.

ELECTRIC PROJECTOR for Sale (advertiser has two); throw advertisement upon pavement; startling effect; practically new; cost £6; bargain, 50s., delivered. "J.," 14 Cloth Market, Newcastle-on-Tyne.

WANTED.

PHARMACEUTICAL Books wanted; send priced list. Gower Bookseller, 41 Voltaire Road, Clapham.

CHEMIST, opening Pharmacy, requires immediately Screen, Fittings, Fixtures, etc., cheap for cash. Fuge, 72 Cavendish Road, Clapham.

DEVELOPING TANKS and Gaslight Printer for D. and P. Department; must be in good condition. Bell, 46 Hamilton Road, Felixstowe.

ABOUT 100 ASSORTED SHOP ROUNDS, labelled or plain State lowest price to Rock & Breakspear, Ltd., Chemists Maidenhead. Also 3 gr. Pill Machine.

COPIES OF "SECRET REMEDIES" and "MORE SECRET REMEDIES"; published by British Medical Association Broughton, Albion House, Atherton, near Manchester.

TWO 24 x 5 GRAIN PILL MACHINES; one 0, 1 and 2 Cache Machine; one Dental Chair; one oval Hanging Carboy, will brass, capacity about 2½ gallons, with brass mounting and chain; also complete set of Shop Rounds, wide and narrow neck Poisons and Plain, Mortars, etc., for stocking brand shop, and one O'Brien cash exhibiting and receipt-giving Till. Apply 140/16, Office of this Paper.



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THE above illustration is one of the many successful Elfrida lines. You cannot possibly stock a more popular or pleasing series of toilet preparations. The demand for them has been increasing daily at an enormous rate ever since they were first brought out. We feel that this demand is proof positive that they are all lines in public favour. Every item is artistically turned out and they radiate quality in every respect. The prices, too, are all on the P.A.T.A. and they show an excellent margin of profit for you.

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You will already be acquainted with this delightful perfume, but we illustrate above the new fiancée bottle we now supply. Each bottle is most attractively labelled and nicely finished off with gold cord and seal. It is a splendid line to recommend to any of your customers. The prices are: Small Fiancée, 27/- per doz.; Large Fiancée, 36/- per doz. P.A.T.A. 3/6 and 5/-

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This latest addition to the series is fast becoming a line in great demand. Each box contains the finest air-floated powder and can be supplied in four shades, Naturel, Cream, White, and Pink. You ought to be doing real big business with this line. The boxes cost you 12/6 doz. P.A.T.A. 2/- and 6/6 doz. P.A.T.A. 1/-



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WE have just installed an emulsifying plant of an entirely novel type, with the result that the B.D.H. Emulsions—always good—are now of superlative quality.

The new machinery produces an emulsion in which the oil is broken up into infinitesimally minute globules—a fineness of division hitherto unattainable by any process and giving a practically inseparable product.

The B.D.H. Emulsions may therefore be relied upon as combining elegance with absolute stability.

Cod Liver Oil Emulsion.

Made by the above process and incorporating 25, 33 $\frac{1}{3}$ or 50% of the finest Norwegian Cod Liver Oil. Beautifully creamy and palatable.

Supplied either with or without the addition of hypophosphites.

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Made on similar lines and containing 33 $\frac{1}{3}$ % finest liquid paraffin (Internal) with calcium and sodium hypophosphites and suitable flavouring.

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